CONSTRUCTION NEWS

PERSONALS, ENGINEERING SOCIETIES, ENGINEERING SCHOOLS, READERS' WANTS, INDUSTRIAL NOTES, PUBLICATIONS.

Supplement to ENGINEERING NEWS. New York, November 10, 1904.

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PERSONAL.

Mr. Leon Dalton has been re-elected City Engineer of Dallas, Tex.

Mr. F. F. Gaines has been appointed Mechanical Engineer of the Philadelphia & Reading R. R., with headquarters at Reading, Pa.

Mr. W. W. Hunt has resigned as Superintendent of the Amherst Water Co., of Amherst, Mass., and will be succeeded by Mr. C. A. Elder.

Mr. W. A. Clement, Engineer-in-Charge of the civic sewer department of Toronto, Ont., and Miss Louise Thompson-Currie, were married in that city, Oct. 26.

Mr. A. Chatterton, an engineer from Madras Province, India, was recently in Los Angeles, Cal., for the purpose of investigating irrigation development in that section of the country.

Mr. G. W. Zorn, of Cheyenne, Wyo., has been appointed Chief Engineer of the Oregon Basin irrigation project which is to be undertaken in Big Horn County, Wyoming, by eastern capitalists.

Mr. J. M. Egan, hitherto Assistant Engineer in charge of the double-track work on the Tennessee Division of the Illinois Central, has been appointed Roadmaster at Freeport, Ill., to succeed Mr. T. R. Cummins, resigned.

Mr. C. H. Markham, Vice-President and General Manager of the Southern Pacific Ry. Co., at San Francisco, Cal., has resigned, and will become General Manager of the J. M. Guffey Petroleum Co., at Beaumont, Tex.

Mr. Wyatt W. Taylor and Mr. John S. Ely have entered into a partnership under the firm name of Taylor & Ely, and have opened an office at 500 Fifth Ave., New York City, for practice as Consulting Engineers.

Mr. E. H. Pfafflin has resigned as Superintendent and Chief Engineer of the Evansville & Terra Haute R. R., and Mr. J. S. Douglas has been appointed Superintendent in charge of transportation, with headquarters at Evansville, Ind.

Mr. M. T. Pratt has been appointed Acting Resident Engineer of the Southern Division of the Gulf, Colorado & Santa Fe Ry., with headquarters at Temple, Tex., to succeed Mr. J. C. Christy, who has resigned to take service with another company.

Mr. George D. Brooke, formerly Superintendent of Machinery and Equipment of the Iowa Central and Minneapolis & St. Louis roads, has been appointed a member of the Engineering Staff of the Panama Canal Commission, and intends to leave for the Isthmus on Nov. 18.

Mr. M. F. Temple has been appointed Resident Engineer in Charge of Construction, of the Gulf, Colorado & Santa Fe Ry. at Galveston, Tex. Mr. R. A. Rutledge has been appointed Resident Engineer of the Beaumont Division of the above road, with headquarters at Beaumont, Tex., to succeed Mr. Temple.

Mr. M. K. H. Bakkati, Irrigation Engineer of Cairo, Egypt, is now in the United States investigating American methods of irrigation with a view to applying the most valuable features to the projected systems in his own country. His principal investigations so far have been made in Colorado and Utah.

Mr. B. F. Thomas has resigned his position as Assistant Engineer in charge of the Big Sandy River Improvement at Louisa, Ky., to accept a position as Engineer and Superintendent for the Sheridan-Kirk Contract Co., in charge of the construction of Lock and Dam No. 37, Ohio River, near Cincinnati, O. Mr. Thomas will be located at Home City, O.

OBITUARY.

Richard P. Miller, a young civil engineer, died at St. Marks Hospital, Salt Lake City, Utah, Oct. 25, of typhoid pneumonia. He was a native of Corry, Pa., and was 27 years old.

Cassius A. Sias, an engineer, connected with the construction of the sea wall at Galveston, Tex., died in that city Nov. 5 of pneumonia. He was a native of Waupine, Wis., and was 51 years old.

Charles Ellis Taft, formerly City Surveyor of Auburn, N. Y., died suddenly in New York City, Nov. 1. He was a special agent of the United States Census of 1890 for the collection of shipbuilding statistics. He had also served as an assistant to General Meigs in difficult railway construction in the Andes.

Max Osterberg, M. Am. I. E. E., died at his home at Brighton Heights, Staten Island, New York, Oct. 26, as the result of an apoplectic stroke. He was graduated from Columbia University in 1893, securing the degree of A. M. from the same institution in 1896. He was the author of a work on thermo-dynamics which has been adopted as a text book in many colleges. In 1896, Mr. Osterberg opened an office at 11 Broadway, New York as Consulting Electrical and Mechanical Engineer. He was 35 years old.

Mr. Louis Frederic Gustave Bouscaren, M. Am. Soc. C. E., died at Cincinnati, O., on Nov. 6, after a long illness. He had been in impaired health for nearly a year and had submitted to several surgical operations, but he grew steadily worse so that he had been unable to be at his office for several months.

Mr. Bouscaren was born of French parents Aug. 25, 1840, at Pointe-a-Pitre, West Indies. His family emigrated to Kentucky in 1850. He was engaged in railway construction for nearly twenty years, on the Ohio & Mississippi, the Vandalia, the Cairo & Vincennes and the St. Louis & Southeastern, and he was Chief Engineer of the Cincinnati Southern R. R., during the latter period of its construction. For the last eight years, Mr. Bouscaren has devoted himself to the new water-works system for Cincinnati, of which he was Chief Engineer. Mr. Bouscaren was elected a Vice-President of the American Society of Civil Engineers at the annual meeting last January.

ENGINEERING SOCIETIES.

COMING MEETINGS.

SOCIETY OF NAVAL ARCHITECTS AND MARINE ENGINEERS.
Nov. 17 and 18, 1904. Annual meeting at New York, N. Y. Secy., Wm. J. Baxter, 12 West 31st St., New York.

ENGINE BUILDERS' ASSOCIATION OF THE UNITED STATES.
Dec. 2, 3, 1904. Annual meeting at New York, N. Y. Secy., D. Fleming, Harrisburg, Pa.

AMERICAN SOCIETY OF MECHANICAL ENGINEERS.
Dec. 6, 1904. Annual meeting at New York City, Secy., F. R. Hutton, 12 West 31st St., New York.

AMERICAN INSTITUTE OF ARCHITECTS.
Dec. 15 to 17, 1904. Annual meeting at Washington, D. C. Secy., Glenn Brown, Washington, D. C.

WESTERN SOCIETY OF ENGINEERS.—At the meeting held at the society's rooms on Nov. 2 a paper on "The Development of Reinforced Concrete in Europe and New Ideas in Concrete Construction Work," was read by Mr. E. Probst, C. E., of Vienna, Austria.

CANADIAN SOCIETY OF CIVIL ENGINEERS.—The first meeting of the Electrical Section was held on Thursday, Nov. 3, 1904, at the society's house, 877 Dorchester St., Montreal. Mr. A. E. Foreman presented a paper on "The Design, Construction and Testing of Core-Type Transformers."

AMERICAN CHEMICAL SOCIETY.—The meeting of the New York Section on Nov. 11, at the Chemists' Club, 108 West 55th St., New York City, will have the following program: "The Determination of Ammonia in Milk," by Messrs. H. C. Sherman and W. N. Berg; Report of committee on methods for the Determination of Zinc, by Mr. G. C. Stone; A discussion of Radio-activity, by Messrs. A. P. Hallock, H. Lieber, J. Alexander, G. B. Pegram and C. Baskerville. Secy., F. H. Pough, 28 Burling Slip, New York.

AMERICAN SOCIETY FOR TESTING MATERIALS.—The interesting announcement is made by the secretary that the membership of the society has increased by 20% since the last annual meeting (June, 1904). The society now has nearly 600 members. This figure will be better appreciated when it is understood that the society's membership is of unusually high class, being made up of engineers, chemists, etc., vitally interested in advancing the science of material-testing.

A number of the specifications submitted by their various committees at the last annual meeting for adoption are now being voted on by the society-at-large. They deal with the following: Cement (both natural and Portland), Cast-Iron Pipe and special castings; Foundry Pig Iron; Malleable Castings, and Iron for Locomotive Cylinders. Together with these a vote is being taken on the amendment proposed at the last annual meeting, namely, to raise the annual dues to $5. As it is well recognized among the members that a society of the importance of this one can hardly be run on dues as low as $3 a year, especially when it is considered that of this amount $1.50 is remitted to the affiliated International Association, the amendment will very probably be adopted. Prof. Edgar Marburg, of the University of Pennsylvania, Philadelphia, Pa., is secretary of the society.

MONTANA SOCIETY OF ENGINEERS.—The regular meeting for October was held in the society room, No. 225 North Main St., Helena, Mont., on Saturday, Oct. 8, at 8 p. m. Treasurer Barker read some new rules under consideration by the Association of Engineering Societies, and was instructed to vote "no" on the section that proposed a yearly tax on all members, active, honorary and associate. Mr. Geo. H. Maxwell spoke at length on "Irrigation Projects of the United States." An interesting discussion by several members followed his remarks. The next meeting will be held Saturday evening, Nov. 12, at 8 p. m. Subject for consideration, "Mining Laws of the U. S." Secy., C. H. Moore, Helena, Mont.

ENGINEERING SCHOOLS.

UNIVERSITY OF ILLINOIS.—The engineering experiment station, which was established by action of the Board of Trustees on Dec. 8, 1903, has issued its first bulletin, being a report by Prof. A. N. Talbot, Professor of Municipal and Sanitary Engineering (in Charge of Theoretical and Applied Mechanics) upon the tests of reinforced concrete beams (Eng. News, Aug. 11). The following is an extract from the announcement accompanying the bulletin:

It is the purpose of the station to carry on investigations along various lines of engineering and to study problems of importance to professional engineers and to manufacturing, railway, constructional and industrial interests of the State. The laboratories of the College of Engineering are being equipped with additional apparatus and facilities to further such research work. It is believed that this experimental work will result in contributions of value to engineering science, and that the presence of such investigations will give inspiration to students and add efficiency to the College of Engineering.

The Board of Direction of the Engineering Experiment Station consists of the Dean and six professors in the College of Engineering. The investigations are to be made under the supervision of the professor in charge of each laboratory.

CIVIL SERVICE EXAMINATIONS FOR TECHNICAL POSITIONS.

Announcement is made in these columns from time to time of civil service examinations for technical positions. In all cases where the examinations are held by the United States Civil Service Commission, further information may be obtained by addressing the Secretary of that board at Washington, D. C.

ELECTRICAL ENGINEER, STEAM ENGINEER.—New York State Civil Service Commission, Charles S. Fowler, Chief Examiner, Albany, N. Y., from whom further information can be obtained, has announced general examinations to be held Dec. 3. Among the positions to be filled are those of assistant electrical engineer and assistant steam engineer.

PALEONTOLOGIC DRAFTSMAN.—U. S. Civil Service Commission will hold an examination Dec. 7, at various places throughout the country, to fill a vacancy in the position of paleontologic draftsman, at initial salary of $840 per year, in the Geological Survey, and other similar vacancies as they may occur in that Survey. Examinations will consist of submission of specimens of drawings of fossils done by the competitor, and practical tests in drawing with pencil and brush of a specimen fossil.

INSPECTOR OF HULLS.—U. S. Civil Service Commission will hold an examination Dec. 7-8, at various places throughout the country, to fill a vacancy in the position of inspector of hulls of steam vessels; at $1,200 per year, Seventh Steamboat-Inspection District, Cincinnati, O.; two vacancies in the position of assistant inspector of hulls, at $2,000 per year each, Steamboat-Inspection Service, New York, N. Y.; a vacancy in the position of local inspector of hulls of steam vessels, at $2,250 per year, Steamboat-Inspection Service, Boston, Mass., and other similar vacancies as they may occur in that service. The age limit is 25 to 55 years.

CIVIL ENGINEER AND SUPERINTENDENT OF CONSTRUCTION.—U. S. Civil Service Commission will hold an examination Nov. 29-30, at various places throughout

the country, to fill vacancies in the position of civil engineer and superintendent of construction, at $1,500 per year, in the Quartermaster's Department at Large at the following places, and similar vacancies as they may occur: Vancouver Barracks, Wash.; Fort Snelling, Minn.; Cheyenne, Wyo.; for duty at Fort D. A. Russell; Fort Totten, N. Y.; San Francisco, Cal., for duty at Fort Miley; San Francisco, Cal., for duty at Point Bonito; Indianapolis, Ind.; Fort Walla Walla, Wash.; Fort Moultrie, S. C.; New London, Conn.; and Delaware City, Del., for duty at Fort Dupont. Appointees must have in addition to a good scientific education, some practical experience in the branches of civil engineering covering construction of roads, laying out of grounds, sewer and water lines, concrete walks, etc., and especially in building construction.

CONSTRUCTION NEWS.

PLANS AND SPECIFICATIONS ON FILE.

The following Plans (P.), Specifications (S.), and Bidding Sheets (B. S.), may be seen at the office of The Engineering News Publishing Co., 220 Broadway, New York:

Bids close.	Work.	Place.	On file.	See issue.
Nov. 12	Bridge, steel	Calgary, Alta.	S	10-20
12	Timber piers	Washington, D. C.	S	10-27
12	Pile & timber wharf	Wash., D. C.	S	10-27
15	Roads	Harrisburg, Pa.	S	10-27
15	Bridges	Harrisburg, Pa.	S	11- 3
19	Retaining wall	Wash., D. C.	S	11- 3
*20	Tunnel	Boston, Mass.	P. & S	10-27
Dec. *1	Bridge	Manila, P. I.	P., S. & B. S.	10- 3
*1	Light-house	Tompkinsville, N. Y.	S. P. B. S.	7-28
				11- 3

*Work advertised in Engineering News.

NOTE.—We are desirous of securing specifications and bidding sheets (and plans when not too bulky) of pending work for file in our New York office for the benefit of contractors or others who may be interested in the work. If more sets than one are sent us we shall be pleased to distribute these to contractors who ask for them. When the work is advertised in Engineering News a note that the plans are filed with us will be added to the advertisement without cost.

LIST OF CONTRACTS PENDING.

Bids close.	Work.	Place.	See issue.

LIGHT, HEAT AND POWER PLANTS.

Nov. 16. Vapor lighting, Glenville, O. ..... Nov. 10
Nov. 23. Engines, etc., New York, N. Y. ..... Nov. 10
Nov. 26. City lighting, San Antonio, Tex. ..... Nov. 10
Nov. 26. Street lighting, Evansville, Ind. ..... Nov. 10
Advertised, Eng. News, Nov. 3 and 10.
Dec. 6. Electric lights, plant, etc., Dallas, Tex. .. Oct. 27
Advertised, Eng. News, Oct. 27 and Nov. 3.

BRIDGES.

Nov. 10. Bridge, Fresno, Cal. ..... Nov. 3
Nov. 11. Bridge, steel, Little Falls, Minn. ..... Oct. 27
Nov. 11. Bridge, Linton, N. Dak. ..... Nov. 10
Nov. 12. Bridge, steel, Tom's River, N. J. ..... Nov. 10
Nov. 12. Bridge, Montgomery, Ala. ..... Nov. 10
Nov. 12. Bridge, Calgary, Alta. ..... Nov. 10
Advertised, Eng. News, Oct. 20 and 27.
Nov. 14. Bridges, Terre Haute, Ind. ..... Nov. 3
Nov. 14. Bridges, steel, Belair, Md. ..... Nov. 3
Nov. 15. Bridges, Harrisburg, Pa. ..... Nov. 3
Nov. 15. Bridges, iron, Chillicothe, Mo. ..... Nov. 3
Nov. 15. Bridges, steel, Monroe, La. ..... Nov. 3
Nov. 15. Bridges, Tipton, Ia. ..... Oct. 20
Nov. 15. Bridge, Winnipeg, Man. ..... Oct. 13
Nov. 16. Bridges, Eureka, Cal. ..... Oct. 6
Nov. 17. Bridges, Fairbury, Neb. ..... Nov. 3
Nov. 17. Bridges, steel, Evansville, Ind. ..... Oct. 20
Nov. 18. Bridge, Rathdrum, Idaho. ..... Oct. 27
Nov. 21. Bridge, repair, Binghamton, N. Y. ..... Nov. 10
Advertised, Eng. News, Nov. 3 and 10.
Nov. 22. Bridge, Harrisburg, Pa. ..... Nov. 3
Nov. 25. Bridge, superstructure, Cincinnati, O. ..... Nov. 10
Nov. 29. Bridge, superstructure, Cortlandt, N. Y. .. Nov. 3
Nov. 30. Bridge, Akron, O. ..... Nov. 10
Dec. 1. Bridge superstructure, Manila, P. I. ..... Nov. 10
Advertised, Eng. News, July 28
Dec. 5. Bridge, Dillon, Mont. ..... July 28 to Dec. 1.
Dec. 7. Bridges, Eau Claire, Wis. ..... Oct. 20
Advertised, Eng. News, Nov. 3 and 10. ..... Nov. 3
Dec. 14. Bridges, Belgium ..... Nov. 10

BUILDINGS.

Nov. 10. Building, Omaha, Neb. ..... Oct. 27
Nov. 10. Laboratory buildings, Washington, D. C. .. Sept. 22
Advertised, Eng. News, Sept. 22 to Nov. 3.
Nov. 10. Removing buildings, St. Louis, Mo. ..... Oct. 20
Advertised, Eng. News, Oct. 20.
Nov. 14. Post office, Adrian, Mich. ..... Oct. 13
Nov. 14. City hall annex, New Orleans, La. ..... Oct. 20
Nov. 14. Freight shed, Stockton, Cal. ..... Oct. 27
Nov. 14. School, Cincinnati, O. ..... Nov. 3
Nov. 15. Steam heating, Kirksville, Mo. ..... Oct. 20
Nov. 15. Steam heating, New Ulm, Minn. ..... Nov. 10
Nov. 15. Plumbing, Chicago, Ill. ..... Nov. 10
Nov. 16. Home, building, New York, N. Y. ..... Nov. 10
Nov. 16. Morgue, New York, N. Y. ..... Nov. 10
Nov. 16. Masonry, etc., New York, N. Y. ..... Nov. 10
Nov. 16. Hospital, San Francisco, Cal. ..... Oct. 27
Nov. 16. School, Cleveland, O. ..... Nov. 3
Nov. 17. Steam heating, Athens, Ga. ..... Oct. 27
Nov. 17. Army building, Ft. Meade, S. Dak. ..... Oct. 20
Advertised, Eng. News, Oct. 20 to Nov. 10.
Nov. 17. Hospital buildings, Schenectady, N. Y. ..... Oct. 6
Nov. 21. Post office, Ottawa, Ill. ..... Oct. 20
Nov. 22. Post office, Georgetown, S. C. ..... Oct. 20
Nov. 22. Hospital, etc., Sacramento, Cal. ..... Nov. 10
Nov. 23. Church, Chicago, Ill. ..... Nov. 10
Nov. 24. Post office, Hoquiam, Wash. ..... Nov. 3
Nov. 29. Repair shop, Ft. Totten, N. Y. ..... Nov. 3
Advertised, Eng. News, Nov. 3 to 24.
Nov. 30. Post office, Anderson, Ind. ..... Nov. 3
Advertised, Eng. News, Nov. 3 and 10.
Nov. 30. School plans, Pasadena, Cal. ..... Nov. 10
Dec. 1. Light-house, Tompkinsville, N. Y. ..... Nov. 3
Advertised, Eng. News, Nov. 3 and 10.
Dec. 2. Fair buildings, Columbus, O. ..... Nov. 10
Dec. 10. Railway station, Mobile, Ala. ..... Nov. 10
Dec. 12. Court house, Providence, R. I. ..... Nov. 3
Dec. 14. Post office, Biloxi, Miss. ..... Nov. 3
Advertised, Eng. News, Nov. 3 and 10.
Dec. 15. Post office, Norristown, Pa. ..... Nov. 3
Advertised, Eng. News, Nov. 3 and 10.
Dec. 17. Library, Denver, Colo. ..... Nov. 3
Dec. 29. Hotel, Victoria, B. C. ..... Nov. 3

WATER SUPPLY AND IRRIGATION.

Nov. 10. Brick arch, Marion, O. ..... Nov. 3
Nov. 12. Water pipe, Washington, D. C. ..... Nov. 10
Nov. 12. Water-works, Marion, N. C. ..... Nov. 10
Advertised, Eng. News, Nov. 10.
Nov. 14. Boiler, pumps, etc., Delaware City, Del. .. Nov. 10
Nov. 14. Air compressor, etc., Los Angeles, Cal. .. Nov. 3
Nov. 15. Water system, Ashland, Wis. ..... Oct. 27
Nov. 15. Air compressors, Washington, D. C. ..... Nov. 10
Nov. 16. Reservoir, etc., Fort Wright, Wash. ..... Oct. 27
Nov. 16. Water mains, New York, N. Y. ..... Nov. 10
Nov. 17. Pumping engines, Chicago, Ill. ..... Sept. 22
Advertised, Eng. News, Sept. 22 to Nov. 17.
Nov. 20. Artesian well, Charles City, Ia. ..... Nov. 10
Nov. 21. Artesian well, Lisbon, N. Dak. ..... Nov. 10
Nov. 22. Water mains, etc., Muskogee, Ind. T. .... Nov. 10
Nov. 23. Hydrants, New York, N. Y. ..... Nov. 10
Nov. 24. Water-works, Aberdeen, Miss. ..... Sept. 29
Advertised Eng. News, Nov. 10.
Nov. 25. Water-works, Stewartstown, Pa. ..... Nov. 10
Advertised, Eng. News, Nov. 10 and 17.
Nov. 25. Water-works material, Washington, D. C. Nov. 10
Nov. 30. Hydrants, New York, N. Y. ..... Nov. 10
Dec. 1. Air compressor, Washington, Ia. ..... Nov. 3
Dec. 19. Water-works, Holland, Minn. ..... Nov. 10
Dec. 20. Pipe, Toronto, Ont. ..... Nov. 3
Advertised, Eng. News, Nov. 3 and 10.

SEWERAGE.

Nov. 10. Sewers, Marion, O. ..... Nov. 3
Nov. 10. Sewer repairs, Ft. Howard, Md. ..... Nov. 3
Nov. 10. Sewer, Jackson, Mich. ..... Nov. 3
Nov. 10. Sewers, McKeesport, Pa. ..... Nov. 10
Nov. 15. Tile, Sibley, Ia. ..... Nov. 10
Nov. 21. Sewers, Cincinnati, O. ..... Nov. 3
Nov. 22. Sewer system, Griffin, Ga. ..... Nov. 3
Advertised, Eng. News, Nov. 3 to 17.
Nov. 23. Sewers, Cincinnati, O. ..... Nov. 3
Dec. 1. Sewers, Havre de Grace, Md. ..... Nov. 3
Advertised Eng. News, Nov. 3 to 17.
Dec. 1. Sewers, St. Joseph, Mo. ..... Nov. 10
Advertised, Eng. News, Nov. 10 and 17.
Dec. 2. Sewers, Omaha, Neb. ..... Oct. 13
Dec. 6. Sewers, Los Angeles, Cal. ..... Nov. 10

STREETS AND ROADS.

Nov. 10. Roadway, Brooklyn, N. Y. ..... Nov. 3
Nov. 10. Repair, Lowe.lvi le, O. ..... Nov. 3
Nov. 10. Road, Durango, Colo. ..... Oct. 20
Nov. 10. Road, Brazil, Ind. ..... Oct. 27
Nov. 11. Paving, Pittsburg, Pa. ..... Nov. 10
Nov. 12. Road, Bakersfield, Cal. ..... Oct. 20
Nov. 14. Street, Indianapolis, Ind. ..... Oct. 27
Nov. 14. Roads, Leadville, Colo. ..... Nov. 10
Nov. 14. Paving, Steubenville, O. ..... Nov. 10
Nov. 15. Sidewalks, brick, La Salle, Ill. ..... Nov. 10
Nov. 15. Road, gravel, Toms River, N. J. ..... Nov. 10
Nov. 15. Roads, Harrisburg, Pa. ..... Oct. 20
Nov. 15. Paving, vitrified brick, Liberty Center, O. Nov. 3
Nov. 15. Bridges, Eureka, Cal. ..... Nov. 3
Nov. 16. Sidewalks, Ma lon, O. ..... Nov. 3
Nov. 16. Paving, New York, N. Y. ..... Nov. 3
Nov. 18. Roads, Toledo, O. ..... Nov. 10
Nov. 18. Macadamizing, St. Bernard, O. ..... Nov. 3
Nov. 19. Paving et., New Philadelphia, O. ..... Nov. 10
Nov. 21. Paving, asphalt, Binghamton, N. Y. ..... Nov. 3
Advertised, Eng. News, Nov. 3 and 10.
Nov. 22. Macadamizing, Somerville, N. J. ..... Nov. 3
Nov. 22. Grading, etc., Green Bay, Wis. ..... Nov. 3
Nov. 23. Paving, Belleville, Ill. ..... Nov. 3
Nov. 26. Macadamizing, Cincinnati, O. ..... Nov. 10
Nov. 28. Road, Harrisburg, Pa. ..... Nov. 10
Dec. 1. Sidewalks, Keokuk, Ia. ..... Nov. 3

MISCELLANEOUS CONTRACTS.

Nov. 10. Docks, moles and forts, Chili. ..... Aug. 18
Nov. 11. Pneumatic tubes, Montreal, Que. ..... Oct. 27
Nov. 11. Dredging, New York, N. Y. ..... Nov. 3
Nov. 12. Fire escapes, Hudson, N. Y. ..... Nov. 3
Advertised, Eng. News, Oct. 27. ..... Oct. 27
Nov. 12. Timber piers, Washington, D. C. ..... Oct. 27
Nov. 12. Pile and timber wharf, Washington, D. C. Oct. 27
Nov. 14. Fire hose, Glassport, Pa. ..... Oct. 27
Nov. 14. Ditch, etc., Bloomfield, Mo. ..... Oct. 6
Nov. 14. Electric railway, Hillsboro, Ill. ..... Nov. 10
Advertised, Eng. News, Nov. 10.
Nov. 14. Fire hose, Great Falls, Mont. ..... Nov. 10
Nov. 15. Drain tile, Sibley, Ia. ..... Oct. 27
Nov. 15. Motor drive outfits, etc., Washington, D.C. Nov. 3
Nov. 16. Wall lockers, Prescott, Ariz. ..... Oct. 27
Advertised, Eng. News, Oct. 27 to Nov. 17.
Nov. 17. Tunnel, Boston, Mass. ..... Nov. 3
Advertised, Eng. News, Nov. 3 and 10.
Nov. 17. Lumber, plank, New York, N. Y. ..... Nov. 10
Nov. 17. Railway, England ..... Nov. 10
Nov. 19. Retaining wall, Washington, D. C. ..... Nov. 10
Nov. 19. Steel castings, etc., Washington, D. C. .... Oct. 27
Nov. 22. Retaining wall, Fort Riley, Kan. ..... Nov. 3
Nov. 23. Telegraph material, Australia. ..... Nov. 10
Nov. 26. Steel vessel, Detroit, Mich. ..... Oct. 6
Nov. 28. Wharf, bridge, Fredericton, N. B. ..... Oct. 20
Nov. 29. Repair shops, Ft Totten, N. Y. ..... Nov. 10
Nov. 29. Boiler plant, etc., West Point, N. Y. ..... Nov. 10
Advertised, Eng. News, Nov. 10 and 17.
Nov. 30. Timber, drainage, New Orleans, La. ..... Sept. 29
Advertised, Eng. News, Sept. 29 to Dec. 1.
Dec. 1. Railway, Somerset Ry. ..... Nov. 3
Advertised, Eng. News, Nov. 3 to 24.
Dec. 1. Bulkhead, Buffalo, N. Y. ..... Nov. 10
Dec. 3. Coal handling plant, New Orleans, La. .... Oct. 20
Dec. 14. Hydraulic lift lock, Kirkfield, Ont. ..... Nov. 10
Dec. 15. Battleship, Washington, D. C. ..... Sept. 29
Dec. 23. Coal unloading apparatus, Belgium ..... Oct. 20
Dec. 27. Cranes, etc., South Africa ..... Oct. 20
Mar. 31. Electric railway, China ..... Nov. 10
Advertised, Eng. News, Oct. 20 to Dec. 29.

Write our advertisers when you intend to buy your supplies and machinery for improvements, or for carrying out your contracts. If you do not find what you want in our advertising pages write us for list of firms, and we will put you in communication with them at once.

RAILWAYS.

ATCHISON, TOPEKA & SANTA FE.—C... line from Stockton, Cal., via Sacramento, Wi...lits and Eureka will be let soon, it is ... will take two years to build. R. B. Bura... Los Angeles, Cal.

BUFFALO, ROCHESTER & PITTSBURG.—... meeting will be held on Nov. 21 to vote on ... to increase the capital stock $3,000,000. Of ... $500,000 will be used to pay for the Indiana ... the rest will be used from time to time in ... provements.

CINCINNATI SOUTHERN.—A Chattanooga ... port states that this company has had plans ... for expenditure of about $200,000 for railroad ... tensions.

DELAWARE & HUDSON.—This road will bu... tension from Thurman, N. Y., to Warrensburg ... to Schroon Lake, a total distance of 21 mile... MacMart.n, Ch. Engr., Albany, N. Y.

ILLINOIS.—F. W. Cherry, of Des Moines, Ia., ... ing to local report, has purchased about 30,00... coal lands at Peoria, Ill. Mr. Cherry is org... company to build a railroad through this prope... terminals at Milwaukee and St. Louis. Survey ... run, it is said, but right of way not secured.

KALAMAZOO & LAKE SHORE.—G. A. Mu... Kalamazoo, has announced that proposed rail... tween Benton Harbor and Kalamazoo, Mich., is ... financed and that work will be resumed in the ... Much of the grading is already done.

KOOTENAY CENTRAL.—It is reported that the Koo... tenay Valley Land Co., a London company, in ... tion with the Canadian Pacific Ry. Co., has finan... struction of the Kootenay Central Ry. Co., to run from Golden to Fort Steel, B. C., and thence to junction near Elko.

NEW YORK CENTRAL & HUDSON RIVER.—It has been recommended that the Rome, Watertown & Ogdensburg, Ry. be double-tracked from Utica to Rome, N. Y. J. H. Hustis, of Watertown, and F. A. Harrington, of Albany, Division Supts., may be addressed.

NORTHERN MAINE SEABOARD RY.—State Railway Commissioners will hear petition for charter for this road on Nov. 9 at Bangor, Me. Line will be built from Lagrange, on the Bangor & Aroostook Ry., to Stockton Springs and Searsport, via Bradford, Hudson, Levant, Glenburn, Hermon, Hampden, Winterport, Frankfort and Prospect; about 60 miles long. $100,000 has been expended for terminal sites at Stockton Springs and Searsport. F. W. Cram, Bangor, Me., Pres. Bangor & Aroostook Ry., is one of the incorporators of the Northern Maine Seaboard Ry. Co.

NORTHERN PACIFIC.—Plans have been drawn for lowering tracks through Spokane, Wash. Cost, about $2,000,000. E. J. Pearson, Ch. Engr., St. Paul, Minn. B. L. Crosby, Prin. Asst. Engr., Tacoma, Wash.

OREGON.—Grand Ronde Lumber Co., of La Grande, Ore., has surveys completed for a narrow gage logging railroad from Hilgard, eight miles from La Grande, up the Grand Ronde River about 30 miles to Perry on the Blue Mountains.

ROCKDALE, JOLIET & LOCKPORT.—Work on this road has been begun near Rockdale, Ill. J. H. Filek is contractor. Col. Fred. Bennet is Pres., and Hugh Mitchell, of Joliet, Ill., is Secy. Capital stock, $100,000.

SALEM, FALLS CITY & WESTERN.—Louis Gerlinger, Jr., Gen. Mgr., informs us that line from Dallas to Salem, Ore., is contemplated, but not definitely decided upon. This proposed extension would be 15 miles long and cost about $120,000. Present line is 10 miles long. J. W. Covert, Ch. Engr., at Dallas, Ore.

SAVANNAH, STATESBORO & NORTHERN.—This road, recently incorporated, will run from Statesboro, Ga., via Louisville, Thomson, Washington to Athens, through the counties of Bulloch, Emanuel, Burke, Jefferson, Glasscock, McDuffie, Warren, Wilkes, Oglethorpe and Clarke, about 160 miles. Capital stock, $2,600,000. Noted on Oct. 27.

SOUTHERN PACIFIC.—Line will be built by this company from Hazen (Leetville Post Office) to Los Angeles, Cal. W. Hood, San Francisco, Cal., is Ch. Engr.

ST. LOUIS, PASCAGOULA & PANAMA.—Application has been made for an amendment to the charter of the Mississippi Central Ry. Co., changing the name of the corporation to the St. Lou s, Pascagoula & Panama Ry. Co. Charter also is sought granting company right to build a line from Hattiesburg, Miss., to Pascagoula, on the Gulf coast. Board of Directors will issue the necessary amount of bonds to carry on construction work in Mississippi. Preliminary surveys for a portion of line have already been made. F. L. Peck, Hattiesburg, Miss., is Pres.

TEXAS.—The San Saba Construction Co., capital $1,000,000, has been chartered to build railroads in Texas and Mexico. Morris R. Locke, one of the incorporators, is Pres. of the proposed Colorado, Texas & Mexico Ry. Co., that will build from Abilene to Llano, Tex., about 216 miles. The incorporators are Morris R. Locke, John M. Blackburn, Charles A. Thompson, Fred Cockrell, Abilene, Tex.; Carl H. Jewett, Boston; and Ira Mowery, Morristown, N. J. The Colorado, Texas & Mexico may build from Denver to El Paso, Tex., 1,200 miles.

TEXAS SOUTHEASTERN.—P. A. McCarthy, of Lufkin, Tex., has been engaged, according to a report, to make surveys for an extension from Diboll, Tex., toward the Neches River, 12 miles. W. J. Raef is Gen. Mgr., Diboll, Tex.

NEW INCORPORATIONS AND CHARTERS.

AUGUSTA & FLORIDA.—Has applied for a charter in Georgia to build a railroad from Augusta to Midville, 69 miles. Incorporators: F. J. Holcombe, A. W. Jones, J. Weale, J T. Davis and William Stevens of Midville, Ga.; J. I. Davis, Hephzibah, Ga.; D. Crossland, Aiken, S. C., and G. R. Coffin and C. C. Howard of Augusta, Ga., and W. M. Blount, Union Springs, Ala.

CAMBRIA SOUTHERN.—Tenn.—This company has been chartered to build a railroad from Wetmore, on the Atlanta, Knoxville & Northern Ry., to the Georgia state line. A charter will be obtained in Georgia for the road to run from this point to Cartersville, on the Atlantic & Western road. This is the new through line of the Louisville & Nashville road to the south. Large shops may be erected at Camden, Tenn. Milton N. Smith, Pres. Louisville & Nashville, Louisville, Ky.

CAYUGA LAKE & ITHACA.—Incorporated in New York to build a railroad from Ithaca to Ludlowville, 7½ miles. Authorized capital, $80,000. J. W. Wright, Ivyden, N. Y.; E. A. Dender, Ithaca, N. Y., are interested. Project is said to have been started in the interest of the Delaware, Lacakawana & Western R. R.

HUMBOLDT NORTHERN.—Cal.—Company has been incorporated by W. Carlson, J. M. Carson, A. H. Connick, and others, with capital of $2,500,000, to acquire and operate a standard gage railroad from Arcata, Cal., to a point near the mouth of the Klamath river in Del Norte County, a distance of 70 miles. In addition to this, branches are to be built southward from Arcata along the peninsula to Fairhaven, a distance of 15 miles and westerly a distance of 10 miles.

KANAWHA & EASTERN.—W. Va.—Incorporated to build a railway from Plymouth, W. Va., to the mines of the Alpha Coal Mining Co., three miles from the mouth of Iquano Creek. Capital, $100,000. Incorporators: C. W. Smith, S. R. Ireland, Pittsburg, Pa.; P. W. Butler, Plymouth; L. Prichard and H. A. Robson, Charleston. Road will carry coal exclusively.

MISSOURI, OKLAHOMA & GULF.—Okla.—A charter has been granted to this company, with $10,000,000 capital, to build from a point commencing "at or near the boundary line between Missouri and Indian Territory at or near the northeast corner of Indian Territory and running thence in a general southerly and southwesterly direction through Cherokee, Creek, Choctaw and Chickasha nations in the Indian Territory to the junction of the Washita and Red Rivers." A branch also is to be built from Henryetta, Crook nation, to Shawnee. Estimated length of the railroad is 375 miles. It will cost about $10,000,000. Incorporators are: Wm. Kennefick, Kansas City; W. P. Dewar, Muskogee; W. L. Stuckey, Fayetteville, Ark.; J. C. Duffin, Chicago; Horace Speed, J. W. McNeal and M. Luther West, Guthrie. Work on the railroad has already commenced.

PEACH RIVER & GULF.—Chartered in Texas with $100,000 capital to construct railroad from Willis to Beaumont, Tex., 100 miles. Offices of company are at Timber, Tex. A. W. Miller, Galveston, Tex.; E. S. Henrich, Alton, Ill. and M. M. Rines, Timber, Tex., are among incorporators.

SPOKANE & COLUMBIA RIVER.—Incorporated in State of Washington with $2,500,000 capital, for purpose of building steam and electric lines throughout eastern part of that state. Col. J. M. Fish, Kettle Falls, Wash., is Pres., and Chas. H. Herriam, Spokane, Secy.; Chas. T. Uhlman, Spokane, is Mgr.

VIRGINIA & SOUTHWESTERN.—Chartered in Virginia with a maximum capital of $10,000,000 to construct road from Tennessee line through Virginia's southwest counties to Chesapeake Bay. The directors named include Oliver H. Payne, New York; Grant Schley, New York; Walter Ferguson, Stamford, Conn.; Henry K. McHarg, Stamford, Conn.; John B. Newton, J. Bewley and D. D. Hull, Jr., Bristol, Va.

WAYNESBORO & SAVANNAH VALLEY.—Organized to build a railroad about 60 miles long from Waynesboro, Ga., southeast via Mill Haven, Sylvania, Resource, Bevill and Clyo to a point on the Savannah River, where connection will be made with the steamers of the Augusta & Savannah Steamboat Company for Savannah. Capital stock is $500,000 and the following are among the stockholders: William A. Wilkins, Sr., R. C. Neely, William A. Wilkins, Jr., Frank M. Cate, P. L. Corker, Eton E. Chance, F. L. Scales, W. H. Davis, F. L. Brinson, Edwin Fulcher, C. W. Skinner and George O. Warnock of Waynesboro, Ga.

STREET AND ELECTRIC RAILWAYS.

BANGOR, ME.—It is reported that the electric road which will connect this place with Dexter will be built during the coming summer. The survey has been completed, the route being through Hermon, Levant, Stetson, Exeter and Garland, 33 miles in length. The power will be obtained from a station located near tide water, on Penobscot River. This is done in order that fuel for running the dynamos can be secured direct from coal barges, thus saving expense of transportation by land. Steam power will be used exclusively for operating the road.

BINGHAMTON, N. Y.—It is announced that the Chenango Railroad Co. has been organized for the purpose of building and operating a trolley road through Chenango Valley. Boston and New York men are supposed to be promoters of the scheme. It is said the company proposes to build a road that will connect Binghamton and Earlville.

JAMAICA, N. Y.—The New York State Railroad Commissioners have granted to South Shore Traction Co. the required certificate showing the necessity of the proposed electric railway to be run along the south shore of Long Island from Jamaica to Counetquot Brook at Brookhaven. The grant by the railroad officials completes the line of state and other similar grants needed for the pushing of the proposed road to completion, with the exception of the villages of Babylon and Freeport, where no rights have as yet been granted. J. F. Heyward, 15 William St., New York, is Mgr.

LANCASTER, PA.—At a meeting of the stockholders and directors of Lancaster & Eastern Street Ry. Co., the capital stock was increased to $400,000. This is the line proposed to be built from Christiana to Lancaster via Gap and Paradise.

PITTSBURG, PA.—Contracts aggregating $1,000,000 were awarded for construction of Pittsburg & Allegheny Street Railway, which is to connect Pittsburg and Indiana, Pa., a stretch of nearly 200 miles. Sneithburst, Allen & Baker, of Philadelphia, secured the general contract. The capital of the railway company is $1,200,000. O. W. Kennedy, of Frick Coke Co., is Pres.

PITTSBURG, PA.—The Westinghouse Electric & Mfg. Co. has closed a contract with Pennsylvania Railroad to equip entire Long Island Railroad system with electric motors. Steam locomotives will ultimately be abandoned.

ALLENTOWN, PA.—At a joint meeting of Highway and Railroad Committees the request of Allentown & Reading Traction Co. for a franchise to establish a belt line service was reported favorably to Councils. M. Fluck, City, is Ch. Engr.

WEBSTER, PA.—The Jeannette, West Newton & Monongahela Valley Street Ry. Co. has been organized. It is the intention to follow a route from Webster to Jeannette by way of West Newton. The officers are: James C. Clibbs, President; W. F. Euwer, Treasurer, and A. T. Smith, Secretary.

HAGERSTOWN, MD.—It is estimated that the proposed electric railway to be built between this city and Waynesboro will cost about $200,000. De Warren H. Reynolds and W. A. Morgart, of Cumberland, are the promoters of the project. Rights of way have been secured the entire distance and plans are expected to mature at an early date.

HATTIESBURG, MISS.—Local capitalists are organizing a company to build an electric street railway. F. W. Foote can give information.

DANVILLE, KY.—F. T. Snyder and others will build an electric railway from this place to Junction City.

INDIANAPOLIS, IND.—The Indianapolis, Logansport & South Bend traction road, designed to give direct electric connection between Indianapolis and South Bend, has incorporated with $10,000 cap. stock. The directors are: John M. Caulfield, Geo. H. Leslie, of South Bend, and others. The line will be constructed between Logansport and South Bend, passing through Rochester, Plymouth, Mishawaka, South Bend and Notre Dame, a distance of 65 miles. The principal office will be in South Bend.

INDIANAPOLIS, IND.—A new petition for the extension of College Ave. street car line north to 13th St. has been filed with Board Public Works. The route suggested in the petition starts at College Ave. and 27th St. and runs east in 27th St. to Cornell Ave., thence north in Cornell Ave. to 30th St.

CLEVELAND, O.—The Village Council of Collinwood has granted a franchise to Cleveland Electric Ry. Co. which will permit the company to extend its line on St. Clair St. to connect with the Euclid Beach line of the company. J. J. Stanley is Gen. Mgr.

BAY CITY, MICH.—The Detroit & Bay City Traction Co.'s franchise was granted by Council here Oct. 24, and accepted by the company.

GRAND HAVEN, MICH.—Board of Supervisors have granted a franchise to Riverside Electric Ry. Co. to run its road through the county. The company is given the privilege to erect a bridge across Grand River at Bass River. Promoters of the enterprise state that the road will be built in two years. The road will run from this city to Grand Rapids.

HILLSBORO, ILL.—Hillsboro Electric Ry. Co. is calling for bids until Nov. 14 for construction of about 1½ miles of electric street railway in this city. (Advertised, Engineering News.)

LA SALLE, ILL.—City Council has passed an ordinance giving the Illinois Valley Ry. Co. a franchise to build its track connecting the line between La Salle and Ottawa.

MILWAUKEE, WIS.—The survey of proposed route of Wisconsin Rapid Transit Co. between Fond du Lac and city limits of Milwaukee has been completed. C. D. Smith, of Fond du Lac, is interested.

FORT DODGE, IA.—An electric road 35 miles long from Fort Dodge, through Webster City to Iowa Falls is an immediate probability. Members of the United States Gypsum Co., which owns most of the Fort Dodge mills, is back of the scheme to give a shipping outlet to North-Western and Rock Island roads. The new line will give a new Rock Island outlet at Iowa Falls and by passing through Webster City a North-Western connection.

TOPEKA, KAN.—The Wellington & Cowley County Traction Co., with $500,000 capital, granted a charter. The object of the concern is to build a network of electric railways in Sumner and Cowley Counties, with Wellington as the hub. All of the big towns in those two counties, including Wellington, Winfield and Arkansas City, are to be linked together. The incorporators are: Geo. H. Hunter and C. A. Gambrill, Wellington; H. F. Harbaugh, Rome; John Blattner, Rome; L. H. P. Northrup, C. A. Scruton and S. P. Gould, Arkansas City.

GUTHRIE, OKLA.—A territorial charter has been granted to the Guthrie Electric Light & Power Co., with a capital stock of $150,000, and with Thos. H. Smith, of Denver, Colo., J. H. Cottingham and U. C. Guss, Pres. Guthrie National Bank, as incorporators. This company has purchased all the property of former electric company here with its plant, franchises and good will, and will at once begin a system of improvements, including a street railway system.

UVALADE, TEX.—J. H. Gerhart has been granted a franchise to construct and operate a system of street electric railways at this place.

FORT COLLINS, COLO.—City Council has passed an ordinance giving the Northern Colorado Electric Ry. Co. the right to build an electric railway along the business streets of the city.

SEATTLE, WASH.—The Seattle Electric Co. has applied to Council for franchise to construct a car line from 12th Ave. and 38th St., along 12th Ave. to 41st St., thence east on 41st St. to 14th Ave., where connection will be made with present line.

NAPA, CAL.—An ordinance has been adopted granting to San Francisco & Napa Ry. Co. a franchise for constructing and operating electric railways and telephone and telegraph lines along certain public highways in Napa County.

LIGHT, HEAT AND POWER PLANTS.

BANGOR, ME.—The Sanford Mills Co. has purchased from B. C. Jordan three mill privileges on Mousam River, it is reported, and will build a stone dam, 40 ft. high and 250 ft. long. From the dam an iron flume 6 ft. in diameter, will extend to still water below, giving an 80-ft. head for the operation of an electric power plant.

NORTHFIELD, VT.—Municipal electric power house at this place was destroyed by fire on Nov. 3. Loss, about $20,000; insurance, $10,000.

NEW YORK, N. Y.—Bids are asked by Department of Bridges, 13 Park Row, until noon, Nov. 23, for furnishing and installing two 120-HP. steam engines and two 75 KW. direct current generators, at the Brooklyn Bridge power house, Main St., Boro. Brooklyn. Geo. E. Best, Comr.

PITTSBURG, PA.—Fort Pitt Bridge Co. has let contract for erecting the model power house for the Pittsburg Terminal Warehouse & Transfer Co., of the South Side. Charles Bickel is Arch. It will be 55 × 190 ft., two stories high, steel, firebrick and fireproofing construction and will be equipped with modern apparatus.

HARRISBURG, PA.—There was only one bidder on Nov. 1, the Harrisburg Electric Light Co., whose bid of $26,400 for lighting the capitol, executive mansion and other state buildings the next 12 months, was accepted. State will install plant at expiration of this time in capitol building.

NEW CASTLE, DEL.—See under Water-Works.

BALTIMORE, MD.—John Waters, 23 East Center St., has contract for construction of a power plant for the Baltimore Electric Power Co. Plant will be erected at McComas, Webster and Donaldson Sts., and will cost, exclusive of general equipment, about $100,000.

It has been announced by S. Davies Warfield, Chn. of Executive Com., United Electric Light & Power Co., that plans had been consummated for the erection of one of the largest electric light and power generating stations in the United States. Company has purchased 22 acres of land immediately adjoining the city, having a water front of over 1,000 ft.

UNION, S. C.—Broad River Light & Power Co. has been incorporated by J. L. David, J. H. Dingle, Walter G. Green, A. B. Kugler, J. Lamb Perry, D. Van Smith, F. K. Myers and associates, all of Charleston, S. C., for the development of water power near Lockhart, in Union County, and the establishment of electric plant to furnish light and power. Capital $1,000,000.

ALBANY, GA.—Smith D. Pickett, Pres. Albany Power & Mfg. Co., has stated that work of developing water power of Big Shoals on Muckafoone Creek, 1½ miles north of this city, will be carried out as originally planned. City has a contract with company to purchase power for operating municipal water-works and electric light plants after Oct. 15, 1905.

FLORALA, ALA.—William R. McDuffie has been awarded a franchise for 20 years, to construct and maintain an electric light and power plant. J. N. McLean, Intendant; C. C. McRae, Clk.

GLENVILLE, O.—Bids are asked by M. W. Miles, Secy. Board of Public Service, until noon, Nov. 16, for lighting the streets with vapor light.

CORLISS, WIS.—See under Water-Works.

MANILLA, IA.—Election will be held on Nov. 10 to vote upon question of granting franchise to I. B. Alfred, W. H. Hart and J. P. Barber to operate a gas plant. Manilla gas and lighting plant will be purchased by the applicants if privileges are voted. P. C. Gray is Mayor; A. C. Beers, Town Clk.

CRESTON, IA.—J. C. Sullivan, the Mayor, has announced that local company will be organized to supply electric power to city at expiration of present contract held by Creston Gas, Light & Electric Co.

WESTBRANCH, IA.—Town voted at election held on Nov. 8 on proposition to construct an electric light plant.

CEDARFALLS, IA.—Council has voted to submit to a special election the proposition of the Waterloo Gas & Electric Co. to build a gas plant here. H. C. Hemenway is Mayor; F. O. Jackson, Cy. Clk.; Austin Burt is Secy. of Gas Co.

BLOOMFIELD, NEB.—Bloomfield Gas Co. has been incorporated with $8,000 capital to manufacture gas for business purposes. Willard Mower is Pres.; W. H. Harm, Vice-Pres.; F. J. Uehling, Secy. and Treas.

ST. LOUIS, MO.—Council will consider a bill introduced by President Joseph L. Hornsby authorizing the Interstate Natural Gas & Fuel Co. to do business in this city for 50 years. The company asks for the customary privileges of using the streets, alleys, bridges, viaducts, etc., for its mains.

TROY, MO.—City has voted to issue $10,000 of bonds for an electric light plant.

ST. JOSEPH, MO.—Plans prepared by Ben. Trunk, Arch., for new city electric lighting plant have been accepted. Bids will be received for its construction at once. Building will be of brick, 131 × 63 ft., two stories. Estimated cost, $12,000. W. C. Stewart is Cy. Electrician. Previously mentioned.

SAN ANTONIO, TEX.—Bids are asked until Nov. 26 for lighting city for five years. Electricity and gas are called for in the specifications. Contractors have the choice of bidding on 500 electric arc lamps, or on 285 electric arcs and 500 incandescent mantle lamps, or on either number of electric arcs, or the gas lamps as separate items; $30,000 bond is necessary. Bids will be received by Board of Public Works.

WEST SEATTLE, WASH.—An electric light plant may be built, to be operated in connection with the municipal car line now in course of construction. Geo. R. Cooley, Secy. Improvement Club, may be addressed.

BELLINGHAM, WASH.—The Northwest Water & Light Co. is contemplating building a large electric plant on the Naches River about 11 miles from the city. Plans are not fully completed as yet.

NORTH YAKIMA, WASH.—J. J. Chambers, of Seattle, has applied to Council for a franchise to extend over 50 years for operation of a gas manufacturing and distributing system. He agrees to purchase plant immediately upon passage of ordinance and install same soon.

NORTHPORT, WASH.—Bids are asked until Nov. 9 for lighting streets of this city. F. B. Robinson is Cy. Clk.

PORTLAND, ORE.—Bids are asked until 2 p. m., Nov. 21, for electric light fixtures at Vancouver Barracks, Wash.

ALBANY, ORE.—Willard P. Hawley and Joseph M. Healey, of Portland, have been granted right to divert waters from North Santiam River, above the town of Gates, by canal, flume or pipe, for electric power purposes, within three years.

LEMOORE, CAL.—Bids were asked until Nov. 7 by W. F. Holser, Cy. Clk., for the following machinery: 100-HP. engine, high speed, single cylinder, center crank, belted, new or second-hand, and one dynamo, alternating current, three phase, 75 KW., 2,100 volts, 60 cycles, and switchboard, complete, new or second-hand.

ORANGE, CAL.—Board of Trustees has called election to vote upon proposition to issue $75,000 of bonds; $50,000 will be used for a water plant, $15,000 for electric light plant, and $10,000 for city hall.

SALT LAKE CITY, UTAH.—Henry M. Crowther, 409 Dooly Block, City, has made application to appropriate 20 second-feet of water in Little Cottonwood Creek. A. F. Doremus, State Engr., will hear application on Nov. 17.

LONDON, ONT.—Southwestern Traction Co. is said to have approved plans for a new power house to be erected either at St. Thomas or Lambeth. As soon as the site is chosen tenders are to be called for. The plant, with machinery, will cost about $200,000. It will furnish power for 30 miles of road.

NIAGARA FALLS, ONT.—Toronto & Niagara Power Co. has awarded contracts to the amount of $120,000 for the erection of a subsidiary power station. Thomas Mumford, of Niagara Falls, has contract for the brick and concrete work, at $40,000; the Canada Foundry Co., the steel work, at $45,000. The balance of the contracts have been awarded to Toronto contractors. The company will call for bids at once for the erection of the main power house, which will cost $300,000. E. J. Lennox is Arch.

CHILLIWACK, B. C.—J. Burtt Morgan, Gen. Mgr. Chilliwack Power & Light Co., Ltd., writes us that company probably will call for bids for power equipment next spring in connection with project to develop power on Chilliwack River for lighting and industrial purposes and for operating an electric railway line between Chilliwack and New Westminster. Hermon & Burwell, Vancouver, B. C., are Engrs. Wynn Meredith, Consult. Engr., Vancouver, B. C.

Information concerning contracts to be let or supplies to be furnished, and corrections of errors and omissions in published items, are invited. Full details regarding the equipment, tools, etc., required for the proposed improvements are specially desired.

BRIDGES.

HAMPDEN, MASS.—Notice has been received by County Commissioners from War Department that plans for proposed new Chicopee-West Springfield bridge have received the approval of Secretary of War.

CORTLANDT, N. Y.—Bids are asked by Aqueduct Commissioners, 280 Broadway, New York, until Nov. 29 for building a highway bridge superstructure, 200 ft. span, across spillway of new Croton Dam, in this town. Wm. H. Ten Eyck, Pres.

TOM'S RIVER, N. J.—Bids are asked by Commissioners County Board Chosen Freeholders until Nov. 11 for construct ng a steel bridge over Tom's River. R. L. Disbrow, Chn.

HARRISBURG, PA.—Bids are asked by Commissioners Grounds and Buildings until Nov. 22 for rebuilding substructure and superstructure of bridge across Catawissa Creek, Columbia County. J. M. Shumaker, Supt.

EAST GREENVILLE, PA.—County Commissioners awarded the contract for masonry of a bridge across the Perkiomen at this point to James M Smith, at $4.92 a foot.

LEBANON, PA.—County Commissioners have awarded to the York (Pa.) Bridge Co. the contract to replace wooden bridge at Harper's with a $15,000 steel structure.

PITTSBURG, PA.—The Pennsylvania Railroad proposes to defray half the expense of building a $300,000 stone arch bridge to connect Lincoln Ave. over Beechwood Boulevard. An ordinance to authorize the letting of contract was put on second reading.

TOWSON, MD.—Bids were received by County Commissioners Nov. 1 for constructing an iron bridge over Patapsco River, as follows: York Bridge Co., $11,967; Eyre Const. Co., $12,025; Oswego Bridge Co., $12,700; Belmont Iron Works Co., $12,910; King Bridge Co., $9,022; Lefrenig & Garrigues, $14,450; F. R. Long & Co., $13,075; Berlin Const. Co., $13,000; Nelson-Buchanan Co., Chambersburg, Pa., $7,850; Laner & Harper Co., $10,921; Mays & Stover, $9,208. E. S. Brsley is County Audr.

HUNTSVILLE, ALA.—The big drawbridge at New Hope across Paint Rock River, erected by Madison and Marshall Counties jointly, has been condemned by commissioners of both counties and has been ordered closed to the public until repairs can be made. Two of the piers have been found defective.

MONTGOMERY, ALA.—Bids are asked until Nov. 12 by Montgomery Bridge Co. for constructing a steel highway and street car bridge, with draw and approaches complete, over Alabama River.

AKRON, O.—It is reported that bids will be received by Board Public Service until Nov. 30 for constructing Mill St. viaduct.

ELYRIA, O.—Residents of South Lorain and Sheffield Land Co. will present a petition to County Commissioners asking them to construct a new $200,000 bridge over Black River in Sheffield Township. The present bridge has been condemned and is unfit for use.

ZANESVILLE, O.—The following bids were received by County Commissioners for proposed new bridge at South Zanesville: King Bridge Co., $6,418; Mt Vernon Bridge Co., style A, $6,400, style A with substructure, $7,280, style C, $6,700, style D, $6,990; Oregon Bridge Co., $6,697; Brackett Bridge Co., $6,470; Newcastle Bridge Co., $6,720; N. B. Elliott, $6,620; John P. Corning, $6,559; New Jersey Bridge Co., $6,660, with piers, $7,550; Illinois Bridge Co., $6,633; Canton Bridge Co., $6,760, with tubes, $7,863; E. J. Landor, $6,430; Union Machine Co., $4,813; Hahn Hewitt Co., concrete, $14,000; Virginia Bridge & Iron Co., $6,565, with substructure, $7,474; Huston & Cleveland, A, $5,863, B, $6,975, C, $6,375, D, $6,900, E, $6,300, E, $6,200; Joliet Bridge Co., $6,420; Champion Bridge Co., A, $6,490, B, $7,800; Marion Bridge Works, $6,543, with tubes, $7,597.

GRAND HAVEN, MICH.—See under Electric Railways.

CHICAGO, ILL.—The Scherzer Rolling Lift Bridge Co. informs us that the figure given in our issue of Oct. 27 as its bid for bridge on the Chicago & Alton Ry. was incorrect. It states that the bid submitted was in fact less than the lowest bid given in the item as published and covered the Scherzer bridge complete in every detail.

APPLETON, WIS.—All bids for repairing of Lawrence St. bridge were rejected by Street Committee. It was decided to make only temporary repairs for this winter and delay the putting of a concrete flooring on bridge until next spring.

MILWAUKEE, WIS.—The North Ave. temporary viaduct, wrecked by a steam shovel, will not be repaired. Work will begin immediately on the permanent structure to cross the depressed tracks.

DES MOINES, IA.—The residents of South Des Moines have filed a petition with City Council asking that Board Public Works be instructed to build a foot bridge over the Southeast Sixth St. bridge.

LEAVENWORTH, KAN.—Tierney & Mothin were the lowest bidders, at $3,000, for constructing three bridges. Bids opened Oct. 22 by J. W. Niehaus, County Clk.

LINCOLN, NEB.—County Commissioners have ordered Contractor Sheely to build 25 wooden bridges in this county. The bridges will cost about $6,000.

LINTON, N. DAK.—Bids are asked until Nov. 11 by County Commissioners at Linton for constructing a 60-ft. steel bridge over south fork of Beaver Creek, Township 131. G. A. Herolz, County Audr.

JOPLIN, MO.—An agreement has been reached between the city and Kansas City Southern whereby that road will build a wooden viaduct across its tracks, where they are to be crossed by extension of North Main St. A. F. Rusk, of Kansas City, is Ch. Engr.

LEADVILLE, COLO.—Bids are asked by County Clerk until Nov. 14, 12 m., for repairing bridge near Riverside.

PORTLAND, ORE.—Bids for repair of Union Ave. bridge across Sullivan's Gulch will soon be advertised for.

SPOKANE, WASH.—A. F. Gill, Cy. Engr., has submitted plans for new bridge across river at Olive St., 646 ft. long, 20 ft. wide, superstructure to consist of six Howe truss spans, five to be 99 ft. in length and one 51 ft., all to be supported by piling crib piers. Cost estimated at $6,600. Superstructure only to be done by contract; rest to be built by city under direction of city engineer and Board Public Works.

MOSCOW, IDAHO.—B. T. Byrns and other citizens will try to secure the construction of an overhead bridge over both Northern Pacific and O. R. & N. tracks where both tracks cross Main St. It is proposed to lay the matter before the railroad companies and City Council.

RATHDRUM, IDAHO.—County Commissioners rejected all bids for construction of Homer Road bridge. New bids will be received until Nov. 18, according to plans and specifications by County Surveyor. T. L. Quarles, County Clk.

BUILDINGS.

WINTHROP, MASS.—Cottage Park Hotel Corporation has been incorporated with capital of $110,000. Geo. H. Russ is Pres., Boston; Orlando F. Belcher, Treas., Winthrop.

NEW YORK, N. Y.—Arthur E. Silverman, 241 West 113th St., will build 6-story flats, 101.1 x 90 x 87 ft., at Madison Ave. and 96th St. Plans filed by G. F. Pelham, Arch. Cost, $150,000.

Bids are asked by John F. Ahearn, Pres. Manhattan Boro., until Nov. 16, 3 p. m., for various work at 13th Dist. Municipal Court, 264-268 Madison St.

NEW YORK, N. Y.—Plans have been filed by Geo. J. Ete t, 70 Manhattan St., for 5-story flat, 54 x 110 ft., at Audubon Ave. and 185th St., for Winslow Realty Co., 70 Manhattan St. Cost, $100,000.

By Lawler & Hasse, 69 Wall St., Archs., for a 6-story brick flat, 87 x 87 ft., on 112th St., west of Broadway, for Trood Realty Co., 505 West 112th St. Cost, $150,000.

Rouse & Sloan, Archs., 396 Broadway, for a 12-story apartment house, 125 x 140 ft., at Seventh Ave. and 55th St., for Wyoming Apartment Co., 497 West 140th St. Cost, $900,000.

By G. F. Pelham, Arch., 503 Fifth Ave., for 9-story apartment house, 117 x 135 ft., for West Side Construction Co., to be erected at Riverside Drive and 93d St. Cost, $300,000.

By Francis H. Kimball, Arch., 71 Broadway, for alterations and addition of four stories to present 12-story building at 44, 46 and 48 Cedar St., for Continental Insurance Co. Cost, $100,000.

TOMPKINSVILLE, N. Y.—Specifications and complete plans for construction of Pecks Ledge Lighthouse, Cockenoe Island, Conn., are on file at New York office, Engineering News. Bids are advertised in Engineering News, until Dec. 1.

NEW YORK, N. Y.—Plans have been filed by C. B. J. Snyder, Ch. Arch., Bd. Education, for 6-story fireproof school to be erected at Madison and Jackson Sts. It will be 103 x 251 ft., of brick, limestone and terra cotta. Cost, $345,000.

BROOKLYN, N. Y.—Mrs. Isabel Sinn-Hecht will erect a theater, in connection with a syndicate, on Livingston St. Frank M. Hoyt, her son, is said to have awarded contracts for the work. Estimated cost, $350,000. Mrs. Hecht may be addressed at 59 South Portland Ave.

Thompson & Rosen, 290 Broadway, New York, have acquired, according to a report, "Steeplechase Park" and other land at Coney Island, that will be used as a site for an amusement park to be known as Stadium Park. Work probably will be begun at once.

TROY, N. Y.—Robert Cluett, Pres. Cluett, Peabody & Co., is reported to be interested in plan to erect a 6-story Y. M. C. A. building. It will cost $100,000.

NEW YORK, N. Y.—Bids are asked until Nov. 16, 10 a. m., by Board of Health, 55th St. and Sixth Ave., for erecting a Morgue at Riverside Hospital, North Brother Island, Boro. Bronx.

Bids are asked by Board Health until Nov. 16 for erecting an administration building and nurses' home at Jamaica, Boro. Queens. Thos. Darlington, Pres. Bd.

SYRACUSE, N. Y.—Phi Delta Theta fraternity, New York Epsilon Chapter, will erect a 3-story clubhouse, to cost $40,000, at Syracuse University. Raymond L. Skinner, Chn. Com., may be addressed.

Board Education, it is reported, has asked for $206,943 for improvements to school buildings for next year. Projects under consideration are as follows: 4-room addition to Andrew Jackson school, $15,000; 4-room addition to Garfield school, $15,000; 4-room addition to Washington Irving school, $15,000; 4-room addition to Sumner school, $15,000; 4-room addition to Groton school, $15,000; 8-room school to replace Vine school, $30,000; 4-room addition to Delaware school, $15,000; 4-room addition to Putnam school, $15,000; school to replace Salina school, $65,000.

BUFFALO, N. Y.—Manufacturers' Club has petitioned the War Department to buy a tract of land, consisting of 1,500 acres, at Sturgeon Point, for an army post. Value is about $350,000.

GLEN GARDNER, N. J.—Bids were received on Oct. 28 by Board of Managers N. J. Sanitarium for Tuberculous Diseases, Newark, for erecting a building at Glen Gardner, including structural steel and iron work, carpenter and roofing work, plumbing, heating, electric work, etc. Lowest bidder was Henderson & Co., Ltd., Philadelphia, at $164,437. Two other bids were received, as follows: V. J. Belden Sons & Co., Newark, $209,672, and Joseph H. Cutley, Jersey City, $172,650. Appropriation, $200,000. W. S. Jones is Ch. Bldg. Com. Geo. B. Post & Sons, 33 East 17th St., New York city, are Archs.

GEORGETOWN, D. C.—A cathedral school for boys will be erected near St. Albans Episcopal parish cathedral. It will cost $300,000, as provided for under a bequest in will of late Mrs. Harriet L. Johnston.

WASHINGTON, D. C.—Snowden Ashford, Building Inspector, has examined plans submitted in competition for new Police Court building to be erected at Sixth and D Sts. Average estimate of cost is about $90,000. $72,000 is available.

Plans for the second wing of workhouse have been completed by Inspector Ashford, it is reported. Cost, $100,000.

All bids for the construction of the new municipal almshouse near Shepherd's Landing have been rejected, it is said, as being excessive. Total appropriation is $125,000. About $5,000 has been expended in the preparation of plans.

BALTIMORE, MD.—Travelers and Merchants' Association will have plans prepared for a $75,000 clubhouse.

BALTIMORE, MD.—It is reported that August Weber, 1701 St. Paul St., City, will spend $350,000 in erecting 275 dwellings on site bounded by Madison and Monument Sts., and Milton, Montford and Ashland Aves. There are four tracts, each 320 x 330 ft., recently purchased. Contract has been awarded to Frank Novak, Madison St. and Patterson Park Ave. for the construction of the dwellings. Buildings will be two and three stories high; pressed brick with stone trimmings, with furnace-heating trimmings.

OAKLAND, MD.—An election was held on Nov. 8 to vote on question of issuing $125,000 of bonds for building court house and jail for Garrett County.

COLUMBIA, S. C.—Granby & Jordan, of Greenville, S. C., have contract to construct buildings at Hyatt Park for Columbia Female College. Cost is $100,000.

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ROCKHILL, S. C.—The following bids are reported to have been received by James Knox Taylor, Supervising Arch., Treasury Dept., for the construction, plumbing, heating apparatus, electric conduiting) of post office, at this place: Athens Construction Co., Athens, Ga., $37,122; Norman Underwood, Durham, N. C., $38,428; T. O. Brown & Son, Augusta, Ga. $38,[illegible] & Bradt, Atlanta, Ga., $41,247; R. T. Wardlaw, Knoxville, Tenn., $42,532; George Moore & Sons, Nashville, Tenn., $49,000.

TAMPA, FLA.—Election was called to be held Nov. 8 to vote on question of issuing $100,000 of bonds for purchasing site and erecting a new city hall, as previously noted.

JACKSONVILLE, FLA.—Beacham & Shackleford will erect 10-story store and office building, 52½ x [illegible] of steel, stone and brick, it is reported. Estimated cost, $200,000.

MOBILE, ALA.—Bids are asked until Dec. 10 by Southern Railway, C. H. Ackert, Gen. Mgr., Washington, D. C., for the erection of $100,000 union passenger station. P. Thornton Marye, Arch., Richmond, Va. Previously mentioned.

MOBILE, ALA.—An election was held Nov. 8 on question of issuing $200,000 of bonds for the erection of a jail, improving property at Royal and Church Sts. for public offices and improving and enlarging the present asylum. W. H. Holcombe is Pres. Bd. of Revenue and Road Comrs.

COLUMBIA, MISS.—Board of Supervisors of Marion County has ordered that an election be held Nov. 15 to vote on the $50,000 bond issue for the erection of a court house. L. C. Wellborn, Clk.

GREENEVILLE, TENN.—Bids were received by James Knox Taylor, Supervising Arch., Treasury Dept., for a low pressure steam heating apparatus, for post office and court house, at Greeneville. Ryan & Son Plumbing Co., Nashville, Tenn., were lowest bidders, at $3,950.

LOUISVILLE, KY.—Brinton B. Davis, Arch., Masonic Bldg., is preparing plans for an armory building for Jefferson county, three stories, 200 x 370 ft., of limestone, marble, iron, and steel, as previously noted, and probably will receive bids about Dec. 15. It will be fireproofing, concrete floors, gas and electric fixtures, bath tubs, steam heat, etc. Cost, about $325,000. Mentioned on Nov. 2.

Adas Israel congregation has accepted plans by Kenneth McDonald & J. F. Sheblessy for a Temple. Cost, $100,000.

CLEVELAND, O.—The Cleveland Retail Grocers' Association will erect a $125,000 building on Willson Ave. F. R. Wilson is Secy. Plans are in preparation.

OAK PARK, ILL.—Following bids were opened Nov. 2 by James Knox Taylor, Supervising Arch., Treasury Dept., for the construction of post office at Oak Park: Henry Gilsdorff & Sons, Chicago, $53,500; Kramer Manufacturing Co., Richmond, Ind., $57,999; Charles W. Grindele Co., Chicago, $37,000; John A. Simpson, Lincoln, Neb., $37,880.

CHICAGO, ILL.—Julius Speyer & Son, 164 La Salle St., are stated to have let following contracts for an apartment building, to be erected on Grand boulevard, near 38th St.: Masonry, H. D. Mooreland Co., 97 Clark St.; carpenter work, Gus. Lindell, 97 Clark St.; plumbing, Noble & Thum, 292 Lincoln St. Building will be three stories, 150 x 120 ft., of stone; it will contain 15 apartments of 10 and 11 rooms each. Cost, $105,000. F. E. Ryan is owner.

Bids will be asked by Wm. Penn Nixon, Custodian, until 3 p. m., Nov. 15, for the renovation of the plumbing system in the U. S. appraiser's building.

Sub-bids are being received for a building to be erected for John W. Worthington at Drexel boulevard and 45th St. Total cost, $150,000. W. A. Nicholson, 6541 Greenwood Ave., is Arch.

Mrs. John J. Borland will erect a 20-story building at La Salle and Monroe Sts., according to press report, that will cost $800,000.

H. J. Schlacks, Arch., has plans for a church to be erected by St. Henry's Catholic congregation, the Rev. Father Rutershoff, pastor at Ridge boulevard and Devon Aves. It will be a brick and stone structure, 65 x 140 ft. Cost, $55,000.

Bids have been received by Chief of Police O'Neill for New Police Station site. Bids varied from $41,000 to $210,800. Station will cost $150,000.

CHICAGO, ILL.—Bids will be received, it is stated, by John A. Guilford, Bus. Mgr. Bd. Education, for a building, to contain twelve class rooms and an assembly hall, to replace present Jefferson Park school at North 52d and Winnemac Aves. It will be three stories, of pressed brick, stone and terra cotta, and cost $95,000.

R. B. Williamson, acting Arch. Bd. Education, has completed plans for Beaubien school, to be built at Monticello and Potomac Aves. It will contain 22 rooms. Cost, $106,000.

Bids are asked by Rev. Father Casimer Sztuczko, pastor Holy Trinity congregation, until Nov. 23 for a church to be built at Noble and Chapin Sts. Cost, $150,000. A. O. Von Herbulis, 1416 F St., N. W., Washington, D. C., is Arch.

Contracts for $125,000 hotel building to be erected at 53d St. and Cornell Ave. for Alonzo Clark have been awarded as follows, it is said: Steel work, Dearborn Foundry, 1525 Dearborn St.; mason work, R. & S. Sollett Co., 140 Dearborn St.; plumbing, M. J. Corboy, 78 Dearborn St.; cut stone, A. F. Gibson & Co., 3327 La Salle St. Building will be six stories, 65 x 75 ft., of fireproof construction, brick, stone and steel. Borst & Hetherington, 100 Washington St., are Archs.

Board of Education has awarded contracts for the Cyrus McCormick school, as follows: Masonry, S. N. Nielsen, 1014 Augusta St.; carpenter, Joseph Strud, 857 South Ashland Ave.; plumbing, P. Golner, 3316 Archer Ave.; heating, Wm. Pope, 79 Lake St. It will cost $175,000. Three stories, 120 x 204 ft., brick and stone, fireproof construction. Contracts also were awarded for the addition to the Wm. Penn Nixon school, 1200 North 42d Ave.: Mason work, Siebold & Neunkirchen, 1633 Roscoe St.; carpentry, Henry Shrik & Co., 507 South Kedzie Ave.; plumbing, A. H. Watson, 391 Milwaukee Ave.; heating, W. Pope, 79 Lake St. Three stories, 134 x 111 ft., of fireproof construction. Cost, $85,000.

Board of Education will receive bids until noon Nov. 11 for carpenter work at James Monroe school, Monticello and Lawndale Aves. Also at same date for composition roofing on addition to Austin High School.

Bids are being received by E. R. Krause, Arch., 100 Washington St., it is reported, for superstructure of Majestic Theater and also for office building. The foundations are now in course of construction. Building will be of fireproof construction, with direct and blast steam heating, 81 x 192 ft., 19 stories high. Cost is estimated at $1,000,000. It will be located on Monroe St., between Dearborn and State Sts.

EVANSTON, ILL.—Bids were received as follows by James Knox Taylor, Supervising Arch., Treasury Dept., Washington, D. C., for the construction (including plumbing, heating apparatus, electric conduits and wiring) of the post office, at Evanston; F. M. Garthwait, Chicago, $32,-000; Standard Construction Co., Chicago, $64,480; Chas. N. Gindele Co., Chicago, $68,677; William Weber, Champaign, Ill., $69,000; W. J. McAlpine, Dixon, Ill., $69,145; Tom Lovell, Denton, Tex., $69,627; W. H. Cook, Rockford, Ill., $71,358; C. E. Carson, Chicago, $71,785; M. Yeager & Son, Danville, Ill., $72,398; Original Mfg. Co., Evanston, $84,563; Henry Gilsdorff & Sons, Chicago, $87,633.

SPRINGFIELD, ILL.—S. J. Hanes, Arch., has plans for 5-story brick Y. M. C. A. building to cost $75,000.

AKRON, O.—At election held on Nov. 8 the question of issuing $75,000 of bonds for court house building purposes was submitted to vote.

CINCINNATI, O.—Western German Bank will erect bank building at Twelfth and Vine Sts. The building will be two stories high, of brick and stone. Cost, $50,000.

COLUMBUS, O.—Bids are asked by the Department of Agriculture, State House, until 10 a. m., Dec. 2 (readvertisement), for the erection of exhibition buildings on the State Fair grounds, as follows: (1) One bid for the erection of a poultry building, (2) one bid for the erection of a machinery building, (3) one bid for the erection of one poultry and one machinery building, (4) one bid for the erection of one poultry and two machinery buildings. Plans and specifications at office of H. A. Linthwaite, Arch., State and High Sts. W. W. Miller, Secy.

Dr. C. O. Probst, Secy. State Board of Health, has under consideration several sites for proposed new State Hospital for Insane. $35,000 has been appropriated.

MILWAUKEE, WIS.—Following contracts were awarded by Board Public Works for concrete school building in 14th Ward: Galvanized iron and tin work, Fire & Rustproof Construction Co., $200; carpenter and joiner work, William Ziemann, $6,500; plumbing, sewerage and gas fitting, Philip H. Murphy, $2,200; painting and glazing, Fire & Rustproof Co., $1,250; lathing and plastering, R. E. Tabbert, $3,885; concrete cement, masonry and roofing, Fire & Rustproof Co., $35,400; cast and wrought iron work, Fire & Rustproof Co., $250; heating and ventilating, Charles W. McNally, $7,267; gas engine, $250 extra.

WAUWATOSA, WIS.—Bids are asked until 10 a. m., Nov. 12 for erecting a morgue and pathological building at county hospital. Bidders will submit separate bids, including all material required on the following branches of the work: Mason work, lathing and plastering, wrought and cast iron work, carpenter and joiner work, galvanized iron and tin work, painting and glazing, plumbing, hot water heating, and electrical work. F. O. Phelps, County Clk.

MADISON, WIS.—Finance Committee has recommended to Council that $250,000 be appropriated for constructing a high school building.

SIOUX CITY, IA.—Morris & Co., Union Stock Yards, Chicago, may erect a large packing plant at Sioux City. Work would begin in the spring. Cost, $1,500,000.

CLINTON, IA.—P. J. Weber, Arch., 277 Dearborn St., Chicago, is receiving bids, as previously reported, for Cromwell Hotel. It will contain 125 rooms and cost $250,-000. Six stories, 130 × 130 ft., fireproof, steam heat, of steel construction. C. C. Coan is Pres. Cromwell Hotel Co.

NEW ULM, MINN.—Bids are asked by Building Committee, Holy Trinity School, until Nov. 15, 2 p. m., for installing a heating plant for a parochial school building. A. J. Van Deusen, Winona, Minn., is Arch.

MINNEAPOLIS, MINN.—Question of issuing $200,000 of bonds for school building purposes was voted on Nov. 8.

ST. LOUIS, MO.—Bell Telephone Co. will erect a 10 or 12-story building at Tenth and Pine Sts. Building would probably cost $350,000 to $500,000.

DENVER, COLO.—Eldridge & White, Archs., Jackson Block, have prepared plans for an apartment house to be built at 18th and Logan Aves., for Mrs. Mary Welsh, 1811 Grant Ave. It will cost $75,000.

MONTCLAIR, COLO.—The Agnes Memorial Hospital will build an addition to cost about $100,000.

CORSICANA, TEX.—Special election was held Nov. 8 to vote on question of erecting a court house to cost $150,000.

EDNA, TEX.—Jackson County voted on Nov. 8 on proposition to issue $50,000 of bonds for a new court house.

TACOMA, WASH.—Bids are asked by Board of Directors, Tacoma School District No. 10, until 4 p. m., Nov. 16, for the construction of high school building at North First and E Sts. Frederick H. Heath, Arch., 504 Fidelity Bldg. G. F. Whitty, Secy.

PORTLAND, ORE.—Contracts have been let for erection at the Lewis and Clark Fair Ground of an "Inside Inn" to cost not less than $125,000. It will have 600 rooms. Principal promoter and investor is Mrs. J. T. McCready, of Buffalo.

SAN FRANCISCO, CAL.—Good Samaritan Hospital of San Francisco has been incorporated by O. C. & H. Z. Joslen, R. M. Greibd and others. Capital, $100,000.

LOS ANGELES, CAL.—Gustave Brenner, of San Francisco, has let contract to F. O. Engstrum for a 5-story brick business building, at $63,561. Perry Howard has contract for the foundation work. Building complete will cost $75,000.

LOS ANGELES, CAL.—A petition will be presented to next legislature for $50,000 appropriation for erecting an historical building. The Historical Society of Southern California is interested.

Homer Laughlin, according to "Examiner," will erect a $1,000,000 building on Hill St. in near future.

Architect Fitzhugh has been appointed by Labor Union Committee to prepare plans for the proposed Labor Temple, a site for which has been secured on Maple Ave., between Fifth and Sixth Sts. Construction of building will begin when plans are completed, it is said.

PASADENA, CAL.—Board of Education will receive plans and specifications until Nov. 30 for one 8-room brick school building to cost $21,000 to $23,000 complete; for one 12-room brick school building to cost $31,000 to $34,000 complete; one kindergarten, 2-room wood building, to cost $2,500; one 4-room wood addition to Lincoln school building. All buildings to be wired for bells, light and power conduit system. F. A. Keller, Clk.

SACRAMENTO, CAL.—Bids are asked until Nov. 22, 10 a. m., by F. A. Cromwell, Secy., for erection of three cottages and a hospital building for the California Home for Care and Training of Feeble-Minded Children. Separate bids will be received as follows: (1) For the masonry work, including all brick, stone terra cotta and concrete work, and all necessary excavations and fillings; (2) for the iron work; (3) for the carpenter, plastering, electric and glazing work; (4) for plumbing and gas fitting work; (5) for heating work; (6) for tinning, galvanized iron and slating work; (7) for painting and graining work.

WATER SUPPLY AND IRRIGATION.

FRANKLIN, N. H.—Frank L. Fuller, Hydr. Engr., 12 Pearl St., Boston, Mass., is making investigations looking to an increased water supply for this place.

OXFORD, MASS.—J. E. Darling, Town Clk., writes that legislative act incorporating Oxford Water Co., was accepted by vote of town Oct. 21. It was also voted to contract with company for supply for five years. Secretary, Oxford Water Co. may be able to give information as to new works which it is proposed to install.

SPRINGFIELD, MASS.—Special Water Commission, consisting of N. D. Winter, Q. M. Baker and H. P. Stone have reported to council upon details of plan for building proposed new Ax Factory Reservoir and canals and other improvements of Ludlow system of water supply. They recommend that action be taken at once so that contracts for the work can be let this winter. The proposed reservoir is to have a capacity of 825,000,000 gallons and the cost of the work is estimated at $266,000.

ARCADE, N. Y.—Plant of Wyoming & Cattaraugus Water Supply Co. has been sold on mortgage foreclosure for $14,500, to W. B. Conable for the bondholders.

NEWARK, N. Y.—Village will probably vote on purchase of local water-works for $53,000.

NEW YORK, N. Y.—Bids are asked by John T. Oakley, Comr. Water Supply, Gas and Electricity, 13 Park Row, until Nov. 16 for furnishing, delivering and laying 20-in. water main and appurtenances in certain streets in Borough of Brooklyn. Bids are also asked until same date for furnishing, delivering and laying water mains in various streets in Boroughs of Manhattan, Bronx and Queens.

Bids are asked by Commissioner Water Supply, Gas and Electricity until Nov. 30 for furnishing and delivering 700 four-nozzle post hydrants and 40 two-nozzle fireboat connection hydrants for high pressure fire service mains.

Bids were received by Commissioner Water Supply, Gas and Electricity, 13 Park Row, Nov. 2 for furnishing, delivering and laying water mains in various streets in Boroughs of Manhattan and Bronx. Three lowest bidders were Jno. Cornwell, 69 East 127th St., $118,242; Wilton Contracting Co., Williamsbridge, N. Y., $122,283; Norton & Dalton Contracting Co., 27 West 140th St., $121,471. Itemized bids for the above work are given under Contract Prices.

WEST POINT, N. Y.—U. S. Government, according to reports, has secured site at Fort Montgomery on which it will build a dam across Popolen Creek, to supply this place with water. Surveys are stated to have been made for 20-in. pipe line to carry the water to West Point, which is six miles distant.

McKEESPORT, PA.—Monongahela Valley Water Co. has made proposition to this city to furnish it with 1,000,000 gallons of filtered water.

STEWARTSTOWN, PA.—Bids are asked by Stewartstown Water Co., Allen I. Frey, until Nov. 25 for construction of water-works system in this town. Chas. S. York, Consult. Engr., Baltimore, Md. (Advertised, Engineering News.)

CHAMBERSBURG, PA.—Major Chauncey Ives has been employed as engineer by Borough Council to report on establishment of proposed gravity water system for this place.

PHILADELPHIA, PA.—Following bids were received by Peter Costello, Dir. Pub. Wks., Nov. 1, for building preliminary filters for the Belmont and Torresdale filter plants; (1) filters at Belmont, (2) filters at Torresdale: D. J. McNichol, 704 Betz Bldg., Philadelphia, (1) $218,-000, 200 days; (2) $1,334,000, 300 days; Maignen Filtration Co., (1) bidders' system, $265,000, city plans, $280,-000; (2) bidders' system, $1,380,000; city plans, $1,390,-000, three years; J. H. Loucheim, (1) $265,000, 300 days, (2) $1,470,000, 600 days.

WASHINGTON, D. C.—Bids are asked by District Commissioners until 12 m., Nov. 12, for furnishing 70 tons 8-in. cast-iron water pipe. Henry B. F. MacFarland, Comr.

WASHINGTON, D. C.—Bids are asked by Isthmian Canal Commission, J. G. Walker, Chn., until Nov. 25 for furnishing material for Panama water-works.

NEW CASTLE, DEL.—Council has granted franchise to Delaware Water & Improvement Co., James M. Seabury, Pres., Philadelphia, Pa., permitting it to operate water-works and electric light plant.

DELAWARE CITY, DEL.—Bids are asked until 11 a. m., Nov. 14, for furnishing and erecting 40-HP. boiler, duplex steam pump, air compressor and receiver and all necessary connections at Fort Du Pont, Del. The above is a readvertisement. Capt. Louis F. Garrard, Jr., Q. M., U. S. A.

SHENANDOAH, VA.—A. R. Martin, Secy. Water Comn., writes us that bids will be received until Nov. 20 for purchase of bonds for proposed water-works for this place, estimated cost of which is $20,000. Supply is to be from Massanulton Mountain, 4½ miles distant, and system will require 7¾ miles iron pipe and 24 fire plugs. Work has not been advertised as yet, and possibly will not be. A. C. Walker, C. E., Shenandoah, is Des. Engr., and Town Council is in charge.

BALTIMORE, MD.—Baltimore County Water & Electric Co. has been granted leave to make 1,840 ft. extension of 2-in. pipe and 2,750 ft. extension of 4-in. main. City is considering purchase of this plant and committee has been appointed to set a value on its plant.

MARION, N. C.—Bids are asked by Water Committee until Nov. 12 for furnishing material and constructing system of water-works. Work embraces steam plant, pumps, reservoir and four miles of pipe and appurtenances. R. L. Greenlee, Engr., Winston, N. C.; J. MacNaughton, Chn. Com. (Advertised, Engineering News.)

MURPHY, N. C.—Water-works and electric light plant agitated.

MARION, N. C.—This city has offered $30,000 in 30-year bonds for sale. W. B. Katliff, Mayor.

COLUMBIA, S. C.—Referring to proposed water supply for this city from Congaree River, J. W. Babcock, Chn. Com., writes that plans and specifications have been completed by J. L. Ludlow, Consult. Engr., of Winston-Salem, N. C. These plans have been approved by an advisory board of engineers. The whole matter is now waiting action of Way and Means Committee of City Council as to issuing of bonds.

WASHINGTON, GA.—This city, according to reports, will require for its water-works system two 60-HP. boilers, compound pump 750,000 gallons, one stand-pipe 20 ft. diameter, 1,000,000-gallon reservoir, three miles pipe laying.

GRACEVILLE, FLA.—Graceville Electric Light & Water Co. is stated to want prices on machinery and equipment for water-works for town of 1,000 people.

CAMDEN, ALA.—We are informed that matter of water-works for this place is being discussed, nothing definite having been decided. T. S. Caldwell is Mayor.

ABERDEEN, MISS.—Bids are asked until Nov. 24 for materials and construction work for complete system of water-works with mechanical filter. A. L. Dabney, Engr., Greenwood, Miss.; J. M. Acker, Mayor. (Advertised, Engineering News.)

ASHTABULA, O.—Special election is to be held Nov. 28 to vote on $350,000 bond issue for the construction of water-works.

GIRARD, O.—Special Committee, P. J. King, Secy., is to prepare estimates for proposed water-works for this place, est. cost of which is $70,000.

MENOMINEE, MICH.—We are informed that at the election Nov. 1 city decided not to purchase plant of Menominee Water-Works Co.

GRANT PARK, ILL.—We are informed that this village has employed the National Construction Co., South Bend, Ind., to put in a compressed air system of water-works. C. J. Hayden is Village Pres.

CORLISS, WIS.—Brown-Corliss Engine Co., according to reports, are interested in establishment here of water-works and electric light plant to cost about $50,000.

GREEN BAY, WIS.—We are informed that the report that W. G. Kirchoffer, Consult. Engr., Madison, Wis., was to prepare plans and specifications for water-works for this place, is entirely erroneous.

AMES, IA.—We are informed that plans for three miles extension of city water system have been made by Prof. A. Marston, Ames., and he will superintend the construction, which has been deferred until the coming spring. Est. cost is $26,000.

CHARLES CITY, IA.—Bids are asked by City Council until Nov. 20 for sinking 2,500 ft. deep artesian well. C. D. Ellis, Mayor.

ST. PAUL, MINN.—Water Board will ask Council for an appropriation of at least $80,000 for next year. John Lindquist, Supt. W.-W., has recommended laying of about three miles of 16-in. mains and same amount of 12-in. mains. According to report of L. W. Rundlett, Cy. Engr., to the board, it will be necessary to expend $48,700 next year for water system improvements outside of the city. In addition expenditure of $14,500 is recommended for extending conduit between Pleasant and Sucker Lakes to White Bear Road.

FERGUS FALLS, MINN.—We are informed that nothing of a definite nature has been done in regard to municipal water-works for this place, and it will probably be some time before definite action is taken. E. J. Walker is Mayor.

VIRGINIA, MINN.—Virginia Light & Water Co., according to reports, is to make a 2,100-ft extension to its system.

MELROSE, MINN.—Informal ballot was to be taken Nov. 8 to determine opinion of citizens in regard to municipal water-works and light plant.

HOLLAND, MINN.—Bids are reported asked by Geo. H. Hatch, Village Recdr., until Dec. 19 for construction of water-works system.

GRAND FORKS, N. DAK.—Water-works Committee, Judge T. A. Sullivan, Member, was to report Nov. 10 on some plan for securing water-works for city.

FARGO, N. DAK.—Contract for construction of about two-thirds of a mile of water mains, to cost about $12,000, is stated to have been let to James Kennedy.

LISBON, N. DAK.—Bids are asked by M. E. Moore, Cy. Audr., until Nov. 21 for an artesian well.

MUSKOGEE, IND. T.—Bids are asked by this city until Nov. 22 for laying 15 miles of water mains, building settling basins and a filtration plant.

KANSAS CITY, MO.—Following bids were received by Board Public Works, Oct. 29, for furnishing centrifugal pumping engines and two boilers; Everett Elliott, Secy., Bd. Pub. Wks.: Pumping Engine—J. P. Morris Co., $15,-500, $13,585; Allis-Chalmers Co., $13,370; Camden Iron Works, $14,495; Quincy Engine Works, $16,800; Buffalo Forge Co., $15,000; Henry R. Worthington, $12,000. Boilers—Nat'l Water Tube Boiler Co., $13,356; Altman & Taylor Mach. Co., $13,102; Stirling Co., $10,725; Babcock & Wilcox, $11,690, $12,340 (informal). Contract for pumping engine is stated to have been let to Camden Iron Works, and contract for boilers to Altman-Taylor Co.

ST. LOUIS, MO.—Ben. C. Adkins, Water Comr., is reported to be planning extensions and improvements at the Chain of Rocks pumping station which will require expenditure of about $1,000,000. Two new boilers are to be installed, and ordinance for these will probably come before Council at once. Two new pumps are to be installed later on.

CANON CITY, COLO.—Canon City Hydraulic & Irrigation Ditch Co. and Canon City & Oil Creek Ditch Co. have consolidated and taken out incorporation papers under the name of the Grand View Irrigation Co. Capital is $35,-000. It is stated that ditches of old companies will be enlarged and water taken from Arkansas River for irrigation purposes. Wm. R. Dozier and John F. F. McKenzie are interested.

ROMEO, COLO.—Conejos Reservoir Co., incorporated with $100,000 capital, to con truct a series of reservoirs on the high and low meadows along Elk Creek in Conejos county, and establish a system of ditches for the purpose of irrigating land belonging to the stockholders. Water will be used from Elk Creek and the Conejos River. Albert R. Smith, Lorin C. Bertleson and William H. Barlow are interested.

SPORANE, WASH.—A. F. Gill, Cy. Engr., has completed plans and specifications for 1,000,000-gallon storage tank to be erected in Lidgerwood Park at a cost of $14,200.

ROSEBURG, ORE.—We are informed that Calipooia Investment Co., F. J. Blakeley, Pres., will construct about ten miles of ditches, the work being done by the company. A power plant may be installed next year. C. E. Roberts, Roseburg, is Des. Engr.

BISHOP, CAL.—W. W. Watterson, Chn. Finance Com., is taking bids until Dec. 1 for $44,000 water, sewer and drainage bonds.

Information concerning contracts to be let or supplies to be furnished, and corrections of errors and omissions in published items, are invited. Full details regarding the equipment, tools, etc., required for the proposed improvements are specially desired.

SAN JOSE, CAL.—Madrone Water Co. has been incorporated, with $75,000 capital, to supply Madrone, Morgan Hill and San Martin and surrounding country with water. They will construct dams, reservoirs, etc. M. Hobin, H. D. Peet and W. F. Murphy are interested.

ROSSLAND, B. C.—Additional water supply for city is to be provided for next year at cost of $50,000, according to reports.

NIAGARA FALLS, ONT.—$8,000 of debentures are to be issued for water-works extensions.

STRATFORD, ONT.—In his report to City Council on the water-works Willis Chipman, Consult. Engr., Toronto, Ont., recommends expenditure of about $100,000 for improvements. He also suggests sinking of two artesian wells.

TORONTO, ONT.—Contract for laying 36-in. cast-iron water main in Bathurst St. has been let to Construction & Paving Co. for $36,450.

PINCHER CREEK, N. W. T.—Town Council is reported to be considering installation of water system; supply to be brought from point three miles distant.

SEWERAGE.

NEWPORT, ME.—Philip H. Coombs, C. E., Bangor, has prepared plans for sewer system for this town.

NEW BRITAIN, CONN.—City has voted to issue $100,000 of bonds for continuation of work on the sewer bed system. A. L. Thompson is Cy. Clk.

LONG ISLAND CITY (L. I.), N. Y.—John Harris was awarded contract to build a sewer in Sixth Ave., at $2,111; same contractor was awarded also a contract for another sewer in portion of Sixth Ave., at $3,826.

BROOKLYN, N. Y.—Donlon Construction Co. is reported to have been awarded the contract for removing silt or sand from the brick sewers in Brooklyn Borough at $36,000. This company also secured the contract for constructing a sewer in a portion of 62d St. at $4,949.

BUFFALO, N. Y.—Orrin E. Pierce, Alderman, has introduced ordinance providing for construction of sewers in territory in South Buffalo, west of South Park Ave.

BANGOR, PA.—Sewer system probably will be installed next spring. Council Street Committee has matter under consideration.

McKEESPORT, PA.—Bids are asked until 4 p. m., Nov. 10, for construction of several small sewers. C. E. Soles, Cy. Controller.

ASHLEY, PA.—On Nov. 8 election was held to vote upon question of issuing $14,000 of bonds for extension of sewers.

BELLEVUE, PA.—An election was held Nov. 8 to vote $80,000 additional bonds for street improvements, sewer system and for a bridge between Bellevue and Avalon.

NORRISTOWN, PA.—A private corporation will submit proposition to Council asking privilege of installing a system of sewers in this city, it is reported.

LYNCHBURG, VA.—Harry L. Shaner, Cy. Engr., is reported to have completed plans for extension of sewer system. Cost, $2,500. Work will begin at once.

ELBERTON, GA.—An election will be held on Nov. 10 to vote on question of issuing $20,000 of bonds for constructing sewers and water-works.

PALATKA, FLA.—William W. Lyon, C. E., Memphis, Tenn., writes that he has been engaged by this city as Consulting Engineer to prepare plans for proposed sanitary and storm-water sewers. Total cost, $100,000.

DAYTON, O.—Bids are asked until noon, Nov. 12, by Edward Phillips, Audr., for purchase of $25,000 of bonds. C. P. Floyd, Cy. Clk., announces that sewers will be constructed in Union St., Oak St., Gunckel Ave., Jersey St., Wyoming St., and St. Joseph Ave. Cost, $20,000.

CLEVELAND, O.—Election was held on Nov. 8 to vote upon question of issuing $500,000 of bonds for the construction of sewers. Tom L. Johnson is Mayor.

SOUTH BROOKLYN, O.—Bids are asked by W. T. Puplkofer, Village Clk., until 12 m., Nov. 14, for building sewer and water curb connections in Stateview Ave. Wm. H. Eves Engineering Co., 237 Arcade Bldg., Cleveland, is Engr.

JACKSON, MICH.—Bids are asked until 9 p. m., Nov. 10, for construction of Monkey Run and Wisner St. sewer extension. J. F. Harrison, Supt. Pub. Works.

TOPEKA, KAN.—It is stated that entire city sewer system will be renovated and cleaned. J. F. Snyder is St. Comr.

BOZEMAN, MONT.—Several new sewer districts have been created. C. M. Thorpe is Cy. Engr.

ST. JOSEPH, MO.—Bids are asked until Dec. 1 for construction of extension to Blacksnake Creek main sewer; also for construction of Sycamore St. sewer. Full particulars noted in issue of Nov. 3. Geo. F. Barnes, Clk. Bd. Pub. Works. Wm. H. Floyd, Jr., is Cy. Engr. (Advertised, Engineering News.)

LITTLE ROCK, ARK.—E. A. Kingsley, Cy. Engr., has stated, according to local report, that new sewer system is necessary for this city. Question of installing system has been under consideration by city. Old sewers may be renovated or replaced.

OKLAHOMA, OKLA.—Election was held on Nov. 8 for the purpose of voting $375,000 of bonds for constructing sewers and water-works. Lee Van Winkle, Mayor.

PUYALLUP, WASH.—Sewer system, to cost about $27,000, has been voted for by this place.

ABERDEEN, WASH.—Bids will be called for construction of sewer system. Estimated quantities of material to be needed, as follows: 40 manholes, 28 flush tanks, 18,000 ft. 6-in. pipe, 720 ft. 8-in. pipe, 1,270 ft. 10-in., 740 ft. 12-in., 720 ft. 15-in., and 684 ft. of 18-in. pipe.

LOS ANGELES, CAL.—Bids are asked by C. G. Keyes, Clk. Bd. of Supervisors, Los Angeles County, until 2 p. m., Dec. 6, for the complete construction of a sewer to connect the contagious ward of the new county hospital buildings with the main sewer of these buildings at the County Hospital grounds.

SAN FRANCISCO, CAL.—Contract has been let by Baldwin & Howell, agents of the Hayward Addition, for the construction of a complete sewer system in Subdivision No. 2 of San Mateo Park. It will be about 17,600 ft. long and cost $12,000. Connection will be made with the sewer pipe to be laid by the W. H. Howard estate in Burlingame, leading to low water mark in the Bay of San Francisco.

EUREKA, CAL.—Bids are reported to have been received, as follows, for sewer system extension, tanks, etc.: Williams & Belser, Sections 2, 3, 4 and 5, $3,789; Sec. 1, $1,390; 6, $774; 15 Donahoo flushers, $1,225; Walker flushers, $1,450; two tidal flushers, $312. Contra Costa Construction Co., 1, $31,324; 2, $670; 5, $1,300; 6, $752; 15 Donahoo flushers, $1,160; two tidal flushers, $208; 15 Walker flushers, $1,500. C. B. Ackerman & Son, two flushing tanks, $225: 1, $1,081; 2, $330; 3, $238; 4, $980; 5, $688; 6, $399; 2 to 5, inclusive, if together, $2,034. Humboldt Contracting Co., two flushing tanks, $1,910.

Bid was received from Robt. Hanford for sewer in Long St., from C St. to Williams; I St., from 16th to 17th; D, from Wabash to Trinity; A st., from Fifth to Eighth; storm sewer on First St., and Bay St. sewer, at $5,500.

BISHOP, CAL.—Bids are asked until Dec. 1 by W. W. Watterson, Chn. Finance Com., for purchase of $44,000 of water, sewer and drainage bonds.

BERKELEY, CAL.—The Northlands Development Co. has secured tract of 30 acres at Berkeley and will commence at once to sewer and grade it.

OAKLAND, CAL.—F. H. Dahnke has been awarded contract for sewer in Fontainbleu Ave., at $2,160.

RIVERSIDE, CAL.—City Trustees received bids for the construction of sewers in Hall's Addition, in Howard Ave., and lateral in Eleventh St. Bids of McCormack & Ormand on both contracts were accepted, at $5,157 and $2,591, respectively.

STREETS AND ROADS.

CLINTON, MASS.—The Selectmen have instructed Town Solicitor A. T. Saunders to at once petition the superior court for the appointment of a commission to have charge of the abolition of the five grade crossings in this town. It is believed that $182,000 would cover the expense. A special town meeting is to be held to take further action.

GROTON, CONN.—Highway Commissioner Macdonald has awarded to W. F. Parker, of Noank, a contract for 13,800 ft. of grading on New London and Providence turnpike in Groton for $5,456, and to Herbert S. Jackson, of New Haven, a contract for the grading of a section of road and a rubble drain for $5,079.

COLCHESTER, CONN.—Highway Commissioner Macdonald has awarded to this town a contract for one section of gravel road in the town, with telford base, 2,550 ft., for $3,000.

NEW YORK, N. Y.—Bids are asked by John F. Ahearn, Boro. Pres., until Nov. 16 for regulating and repaving with asphalt on several streets.

NEW YORK, N. Y.—The following are the lowest bidders on asphalt pavement per bids received Oct. 31: Sicilian Asphalt Pave Co.—Lexington Ave., 76th to 77th St., $1,210; Union Sq., Fourth Ave. to Broadway, $3,472; 19th St., Second to Third Ave., $4 278; East Broadway, Jefferson to Clinton St. $6,694; Fourth Ave., Eighth St. to 24th St., $13,650. United States & Venezuela Co.—Elizabeth St., Spring to Prince St., $3,750; Broad St., Beaver to Stone St., $4 283; 17th St., First to Third Ave., $9,123; 50th St., 1st Ave. to Beekman Pl., $2,357; 91st St., Fifth Ave to Madison Ave., $2,334. New York & Bermudez Co.—Lenox Ave., 110th St to 124th St., $14,597. Asphalt Const. Co.—119th St., Third to Park Ave., $5,183.

LONG ISLAND CITY (L. I.), N. Y.—The asphalting of Marc Place was awarded to Hastings Pavement Co., 25 Broad St., New York. Jos. Cassidy, Boro. Pres.

BAYONNE, N. J.—Ordinance to improve West 52d, East 17th and West 27th Sts. was passed by City Council. W. C. Hamilton, Cy. Clk.

UNION HILL, N. J. (STA. WEEHAWKEN).—The William Peter Brewing Co., owners of the greater part of Cantello St., Union Hill, presented to Board of Council plans and specifications for proposed improvement of street by paving, resetting curb and flagging where necessary. The Town Clerk was directed to notify all property owners concerned. Emil Bautz is Town Clk.

PITTSBURG, PA.—Bids are asked by Department Public Works until Nov. 11, 10 a. m., for grading, curbing and paving several streets. Edward M. Bigelow, Dir. Dept. Pub. Wks.

GREENSBURG, PA.—Dr. Frank Cowan intends bequeathing 100 acres of land for a park.

PHILADELPHIA, PA.—Council's Committee of Fairmount Park has approved an estimate by Park Commissioners of $75,000 for completing speedway.

BALTIMORE, MD.—$296,550 will be spent next year by city for street improvements.

BALTIMORE, MD.—The Topographical Survey has approved the ordinance extending St. Paul St. from 31st St. to Merryman's Lane.

JACKSON, MISS.—An ordinance providing for the extension of North President St. was approved by Board of Aldermen. Wm. Henningway, Mayor.

NEW PHILADELPHIA, O.—Bids are asked until Nov. 19 by County Commissioners for paving with block and curbing with cement concrete on a portion of Blicktown Road. A. V. Donahey, County Audr.

CINCINNATI, O.—Bids are asked by Board Public Service until Nov. 26 for grading, graveling and macadamizing on Lloyd Ave., according to plans and specifications of J. A. Stewart, Cy. Engr., 813 Traction Bldg. E. R. Edwards, Clk. of Bd.

STEUBENVILLE, O.—Bids are asked by Board Public Service until Nov. 14 for grading and paving Alley B with hard burned fire brick. T. W. Vance, Clk. of Bd.

DAYTON, O.—James E. Conley was awarded the contract by Board Public Service for paving North Main St. for $17,473.

LA SALLE, ILL.—Bids are asked by F. J. Pierard, Cy. Clk., until Nov. 15, 8 p. m., for construction of brick sidewalks. Plans and specifications may be obtained at office of City Engineer.

BELLEVILLE, ILL.—Bids are asked until Nov. 23 for paving Pennsylvania Ave. with brick, 2,700 sq. yds. Henry F. Merker, Cy. Engr.

OKLAHOMA CITY, OKLA.—The City Council let contracts for street paving to the amount of $56,000, and City Clerk was instructed to advertise for bids for about $35,000 more. The paving to be done is east of the Santa Fe tracks and is to be of brick or asphalt.

HOUSTON, TEX.—Board Public Works has awarded the contract for paving on old Houston Ave. and Decatur St. for $5,366. Contractors' names not given.

LEADVILLE, COLO.—Bids are asked by County Clerk until Nov. 14, 12 m., for grading several roads. L. G. Carpenter, State Engr.

HAYWARDS, CAL.—The Board of Trustees has decided to macadamize Castro Ave.

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MANUFACTURING PLANTS.

FORT TOTTEN, N. Y.—Bids are asked by W. L. Marshall, Lieut.-Col., Engrs., Army Bldg., New York, until Nov. 29, for building a brick repair shop here.

NEW CASTLE, PA.—The New Castle Forge & Bolt Co. will increase its capital from $75,000 to $400,000. A $100,000 merchant bar mill will probably be built in this city.

ERIE, PA.—Architect Selkel, of Pittsburg, is working on plans for new Morse Iron Works. Cost, $175,000.

GAITHERSBURG, MD.—The Gaithersburg Milling & Mfg. Co. will erect this fall on site of old mill, which was burned, a modern mill to cost about $30,000.

LYNCHBURG, VA.—The Hubard Foundry & Machine Works have been chartered with P. C. Hubard, president, and A. B. Dabney, secretary. Capital stock, $20,000.

GREENSBORO, N. C.—A cotton mill to be equipped with 10,000 or 15,000 spindles will be established here. A. L. Bain is interested.

CORNELIUS, N. C.—R. J. Stough and associates will organize a company to erect a hosiery mill here.

NEW BERN, N. C.—The New Bern Lumber Co. will erect a double circular saw mill to cut 70,000 ft. of lumber daily.

BEAUFORT, S. C.—The Charleston Lumber Co. will enlarge its saw mill plant, building an additional mill. The machinery has been purchased.

REYNOLDS, GA.—Ricks Bros. are in the market for a new saw mill outfit of 50,000 ft. daily capacity.

COLUMBUS, GA.—The Golden Foundry & Machine Co. will increase the capacity of its plant.

ADEL, GA.—The Adel Lumber Co. will erect an $8,000 planing mill.

ROME, GA.—The Rome Ice Mfg. Co. will add a large cold storage plant to its factory, to be furnished with all modern equipments.

COVINGTON, GA.—G. W. Simmons will erect a plant here for the manufacture of all kinds of office and household furniture.

ACWORTH, GA.—It is proposed to organize the Acworth Cotton Mfg. Co., with capital stock of $100,000, for the purpose of building a cotton mill. Temporary officers are: President, Orlando Awtrey, and J. J. Northcutt, Secy.

COLUMBUS, GA.—The Union Asphalt Refining Co. has been organized here with a capital of $250,000, of which amount $140 000 is paid up. The company is composed of Georgia, Alabama and Kentucky capitalists. The officers are: Dr. A. B. Bellamy, of Florence, Ala., Pres.; E. A. Mellings, of Owensboro, Ky., Gen. Mgr.; E. L. Ralls, Secy. and Treas. The company will erect a 50-ton refinery on its property at Oklahoma City and will develop its asphalt fields in the west.

OCALA, FLA.—A new planing mill will be erected here. Geo. R. McKean will be manager.

MICANOPY, FLA.—H. M. Sheerhouse will erect a crate factory here. Machinery purchased.

DUNCANVILLE, ALA.—D. O. Parker is in the market for a cotton-gin outfit.

BIRMINGHAM, ALA.—The White Swan Laundry has increased its capital from $4,000 to $8,000. W. J. McDonald and others are the stockholders.

MOBILE, ALA.—It is stated that Weinacker Bros. will establish an ice and cold storage plant here.

BESSEMER, ALA.—J. R. Day will erect a small foundry here to manufacture a new grate stove which he has patented.

GADSEN, ALA.—E. T. Schuler, Pres. Alabama Steel & Wire Co., states his company will erect a second blast furnace here, in addition to steel wire, rod and nail mill announced in previous issue. Two plants when completed will cost $7,000,000.

BESSEMER, ALA.—Cortwell Bros. will erect a planing mill and woodworking establishment here.

PASCAGOULA, MISS.—E. J. Jane has sold to Thomas J. Clark and associates, of New Orleans, the Delmas Canning Factory. The plant will be enlarged to the capacity of 15,000 barrels and put in operation as soon as possible.

TUTWEILER, MISS.—The Kentucky Lumber Co., composed of O. Davis, of Madisonville, Ky.; J. A. Justice and J. H. Higdon, of Providence, Ky., and others, have secured large timber interests and will erect an extensive saw mill here.

COVINGTON, LA.—A. F. Helwick will erect a canning factory here.

MEMPHIS, TENN.—H. E. Craft, 49 Madison St., and associates will establish a laundry in a town of 5,000 inhabitants, near Memphis. They are in the market for full equipment of machinery for same.

JACKSON, TENN.—The Patton-Black Mfg. Co. has applied for a charter to manufacture mattresses, brooms, springs, etc. Capital stock is $25,000. The incorporators are B. P. Cantrell, W. H. Biggs, C. P. Black, J. W. Vanden and T. A. Patton.

JACKSON, TENN.—The Southern Tile & Brick Co. will enlarge its plant. Dr. Rush Jones is Pres.

MT. VERNON, KY.—The Rockcastle Development Co. will establish lime works one mile west of this place.

LEXINGTON, KY.—The Blue Grass Tobacco Co. will increase its capital from $50,000 to $100,000 and new machinery will be installed and capacity of plant largely increased.

LEBANON, KY.—J. M. Lanham is in the market for a 36 × 48-in. planer, one medium size drill press, one screw-cuting lathe and all necessary tools for small job shop.

YOUNGSTOWN, O.—The Consumers' Brewing Co. is negotiating for the erection of a large cold storage plant in the East End. Hugh Callagher is Local Agent.

CINCINNATI, O.—The Franklin Cotton Mill Co. has been incorporated; capital, $10,000, by Thomas C. Pearce, Henry Pearce and I. B. Pearce, and others.

CHICAGO, ILL.—Tuthill Spring Co. has purchased a site of 200 × 119 ft., on West Polk St., upon which to erect a factory building.

KANSAS CITY, MO.—The Central Lumber Co. will increase its capital from $700,000 to $1,000,000.

MILWAUKEE, WIS.—A $30,000 addition is to be made to factory of Geuder & Paeschke Mfg. Co. at St. Paul Ave. and 15th St. The company manufactures tin ware. Ferry & Clas, 419 Broadway, are Archs.

LITTLE ROCK, ARK.—The Arkansas Phosphate Co., formerly of Batesville, will erect a large fertilizer fac-

tory at Argenta (a suburb). The officers of the company are J. G. Goldman, Pres. and Treas.; Fred Mayer, Vice-Pres., and F. S. Williams, Secy., all St. Louis capitalists.

KANSAS CITY, MO.—An immense packing plant will be erected here by American Pressed Beef & Provision Co., of Chicago. The company is capitalized at $300,000 and has the following officers: John J. Ruddy, Pres.; J. M. Ruddy, Chicago, Vice-Pres.; John T. McNamara, Kansas City, Secy. and Treas., and L. L. Taafe, Kansas City, Mgr.

BRENHAM, TEX.—The Brenham Pressed Brick Co., capital $50,000, has been chartered to manufacture various kinds of brick, building blocks and tiles. Incorporators: C. G. Botts, J. H. Simon and Robt. Strickert.

CHICO, TEX.—A company is being organized here for the erection of a cotton mill for the manufacture of percales, calicoes, domestics, etc. Estimates are wanted on plant complete (all equipment to be included) for $200,000 cash. Edward A. Dickenson is interested.

SAN ANTONIO, TEX.—The Holmgreen iron foundry is to be enlarged. A factory for the manufacture of all kinds of tanks will be built. Eugene Holmgreen can give information.

EL PASO, TEX.—J. S. Tebbetts, a glass manufacturer of Riverside, Cal., contemplates establishing a glass manufacturing plant at El Paso. He states that the proposed factory will give employment to about 250 men.

WICHITA FALLS, TEX.—G. E. Wilson will establish an oil refinery here. It will have a daily capacity of 200 barrels of crude oil, which will be obtained from oil field near here.

DALLAS, TEX.—The Dallas Packing & Provision Co., capital $5,000, has been chartered by C. L. Hudson and associates.

HAWTHORNE, TEX.—The plant of the Hardy Gin Co. burned recently at a loss of $5,000 will be rebuilt.

DALLAS, TEX.—The Conkling Mill & Elevator Co., capital stock $60,000, has been chartered. Purpose, manufacturing of building materials of various kinds and wooden ware. Incorporators, A. A. Watson, F. W. Boyle, W. H. Conkling and others.

FORT WORTH, TEX.—The Citizens' Ice Co., capital $10,000, has been chartered here to manufacture and sell ice. R. W. Alford, J. S. Bond and E. H. Keller are the incorporators.

GIDDINGS, TEX.—The capacity of the broom factory, recently established here by Horace Mundine and R. W. Harris, is to be enlarged. Considerable new machinery will be purchased.

OKLAHOMA CITY, OKLA.—The Union Asphalt Mining & Refining Co. is in the market for machinery for refining asphalt from sand asphalt and desires correspondence with manufacturers in this line. A. T. Hamilton is Pres.

SALEM, ORE.—The Salem Brewing Association is planning the enlargement of their plant at an expense of $20,000. A malt house and storage plant is to be built and some machinery and new boilers installed. Planned to carry improvement into effect next year.

MISCELLANEOUS CONTRACTS.

PIER.—Philadelphia, Pa.—H. B. Shoemaker & Co., at $6,300 were low bidders Nov. 3 for constructing frame recreation pier at Otis St. for this city.

TANK.—Weedsport, N. Y.—A 12 ft. inside diameter by 16 ft. deep tank is to be erected near here for storing vinegar. It is to be constructed of 1¼-in. cypress.

RETAINING WALL.—Fort Riley, Kan.—Bids are asked until Nov. 22 for construction of stone retaining wall at this place. Capt. Leon S. Roudiez, Q.-M., U. S. A.

BULKHEAD.—Buffalo, N. Y.—Bids are asked until Dec. 1 for building a pile and timber bulkhead at Buffalo Light House Depot. Lt.-Col. H. M. Adams, U. S. Engrs.

HYDRAULIC LIFT LOCK.—Kirkfield, Ont.—Bids are asked by Department Railways and Canals, Ottawa, Ont., until Dec. 14 for construction of hydraulic lift lock at this place.

TUNNEL.—Boston, Mass.—Boston Transit Commission is stated to have let contract for building Sec. 1 of Washington St. tunnel to Jones & Meehan, 1 Beacon St., Boston, for $82,858.

BOILERS.—Buffalo, N. Y.—Erie County Supervisors have let contract for four steam boilers for 65th Regiment Armory to Farrer & Trefts, Buffalo, for $4,989. Bids were received Nov. 2.

BOILER AND MECHANICAL DRAFT PLANT.—West Point, N. Y.—Bids are asked by Quartermaster, U. S. M. A., until Nov. 29 for construction of boiler and mechanical draft plant. (Advertised, Engineering News.)

AIR COMPRESSORS.—Washington, D. C.—Bids are asked by Bureau Supplies and Accounts until Nov. 15 for furnishing 12 torpedo air compressors and spare parts for U. S. Navy. H. T. B. Harris, Pay. M. Gen.

EXCAVATION.—Brooklyn, N. Y.—The Bush Co., foot 43d St., Brooklyn, is reported to be taking bids for about 15,000 yds. excavating for cellars for factory building at 36th and 37th Sts., South Brooklyn.

OIL COMPANY.—Los Angeles, Cal.—Amalgamated Co. has been incorporated with $5,000,000 capital. W. C. Price, Los Angeles, Cal.; J. E. Bamberger, Salt Lake City, Utah, and J. A. Chansler, San Francisco, Cal., are interested.

FIRE HOSE.—Great Falls, Mont.—Bids are asked by J. E. Moran, Cy. Clk., until 8 p. m., Nov. 14 for 500 ft. of rubber lined cotton fire hose, 2½ in.; two play pipes, 24 in., 1-in. tips; two play tips, 18-in. 1⅛-in. tips; one shut-off tip.

WHARF, BRIDGE.—Fredericton, N. B.—Bids are asked by C. H. La Billois, Comr. Pub. Wks., until Nov. 28, for building Ketchum's wharf over Kennebecasis River, in King's County, and for rebuilding Louison Brook bridge in Restigouche County.

LUMBER, PLANK.—New York, N. Y.—Bids are asked by Commissioner of Bridges, 13 Park Row, until 12 a. m., Nov. 17, for furnishing and delivering yellow pine, white pine and spruce timber; also for furnishing and delivering spruce plank. Geo. E. Best, Comr.

SEA WALL.—San Francisco, Cal.—A project was voted on at the recent election to provide a bond issue of $2,000,000 of State bonds. Should the issue be authorized the sea wall at this place will be extended 4,400 ft., and 13 modern piers built.

ELECTRIC TRAVELING CRANE.—Philadelphia, Pa.—Following bids were received by Peter Costello, Dir. Pub. Wks., Nov. 1, for furnishing electric traveling crane for Lardner's Point pumping station, No. 3: Alfred Box & Co., $6,500; Miles, Bement & Co., $6,500; North Penn Iron Co., $6,694; William Sellers & Co., $7,575, Pailling & Harnischfeger, $7,600.

READERS' WANTS

This Department contains special requests, and detailed items, from persons in the market for supplies, and from others asking for the names and addresses of firms manufacturing certain tools, machinery and supplies required for work in which they are interested. ENGINEERING NEWS will be glad to furnish at once, free of cost, names and addresses of firms making the machinery or material desired, after which the item will appear in this column, **UNLESS OTHERWISE REQUESTED**, which request will be honored absolutely. The information **in all cases will be sent to our advertisers** handling the material wanted, or to other firms should it be out of the line of our advertisers. Every day we are receiving such requests with the understanding that it must not appear in the paper.

CORLISS ENGINES.—Modesto, Cal.—The O. McHenry Co. is in the market for a Corliss engine.

JACK SCREWS.—Uhrichsville, O.—C. E. Barnhill, 184 No. Parrish St., informs us that he is in the market for 75 to 100 house-mover jack screws immediately.

SAND SCREENS.—Le Mars, Iowa.—The Gehlin Milling Co., J. Gehlen, Pres., writes us that it wants to erect a screen of about 40 tons capacity per hour, to screen wet sand.

GARBAGE DISPOSAL.—Dubois, Pa.—R. Dawson Hall, Engineer and Contractor, McEwen Block, No. Brady St., writes for the names of firms making a specialty of handling garbage, either totally destroying it or converting it into useful products.

CATCHBASINS AND MANHOLES, DRAFTING SUPPLIES, CONTRACTORS' LIGHTS, PNEUMATIC TOOLS, SEWER CLEANING MACHINES, PIPES, TRENCH BRACES AND MACHINES.—Valparaiso, Chili.—B. Polanco Guzman, Civil Engr., P. O. Box 671, writes for the addresses of manufacturers of the above supplies.

ROTARY ENGINE.—Meridian, Miss.—Waldo G. Myers, of Martin & Myers, P. O. Box 348, wishes to communicate with firms that manufacture rotary engines.

MOORE TRENCH MACHINES, DISTILLING APPARATUS.—San Francisco, Cal.—H. G. Shaw, Pres. Shaw Trade Library, 440 Crossley Bldg., wishes printed matter of the above material.

WOOD PRESERVATIVE.—Lewiston, Idaho.—J. O. Maxon desires to communicate with firms handling wood preservatives. He is designing a large irrigating system, and the water has to be brought quite a distance along precipitous mountain sides.

WOODEN PIPE (16 MILES), HYDRAULIC MACHINERY.—Detroit, Mich.—Ralph M. Dyar, Union Trust Bldg., writes for information regarding firms manufacturing high-pressure wooden pipes for hydraulic work, and hydraulic machinery. His company owns a placer proposition in the State of Sonora, Mex., and is considering the construction of a pipe line about 16 miles long, and which will have a rise of about 1,000 ft.

LEVEE.—Conway, Ark.—Property owners in Arkansas Valley are stated to have decided to build a levee from Red Hill to point six miles down the river, at est. cost of $16,000. W. W. Martin, B. L. Harton and J. E. Little are among those interested.

DRAINAGE WORK.—Melrose, Mass.—Advices from this city state that this city and Malden and Metropolitan Water Board will probably soon agree on a plan for the enlargement of Spot Pond Brook, so as to do away with all danger from floods. Estimated cost is $180,000.

DRAINAGE CANAL.—Rich Hill, Mo.—An organization has been formed, according to reports, to promote building of a drainage canal to carry off flood water of Marais des Cygnes River. Est. cost of canal is set at about $400,000. A. H. Bell, Bloomington, Ill., is Engr.

TUNNEL.—Boston, Mass.—Plans and specifications for construction of Section 2 of the Washington St. tunnel are on file at office of Engineering News, 220 Broadway, New York. Bids are asked by Boston Transit Commission until Nov. 17, as advertised in Engineering News.

WHARF, DREDGING, ETC.—Newport, R. I.—Bid of Darling & Slade, 56 North Main St., Fall River, Mass., at $22,465, is stated to have been accepted by Bureau Yards and Docks for constructing timber wharf, buildings, etc., at Government landing, Newport. Bids were received Oct. 29.

DREDGING.—Pittsfield, Ill.—Sni Drainage Commissioners are stated to have let contract Oct. 29 to Quincy Dredging & Towing Co., for about nine miles of dredging. With this contract and the ones secured Oct. 5, the company has about 717,000 cu. yds. of dredging for this district.

WHARF SHEDS.—Mobile, Ala.—Mobile & Ohio R. R. Co., according to reports, is to take bids this winter for improvements to their terminals in this city. Work will include construction of new double deck wharf sheds extending from Government to Dauphin Sts. F. T. Lack, Mobile, is Res. Engr.

HARBOR WORK.—Chicago, Ill.—Following bids were received by Col. O. H. Ernst, U. S. Engrs., Nov. 7 for rebuilding superstructure and laying new decking at Calumet Harbor: Bennett & Schnorbach, Muskegon, Mich., $21,084; Chicago & Great Lakes Dredge & Dock Co., Chicago, Ill., $16,025; Edward Gillen, Racine, Wis., $16,145; Fitzsimmons & Connell Co., Chicago, Ill., $16,810.

TUNNEL.—New York, N. Y.—Engineers of the Pennsylvania R. R. tunnel have been instructed to prepare specifications for tunneling across Manhattan Island, and from Weehawken to the main line of the Pennsylvania in the Hackensack Meadows, and it is stated that contracts for the work will soon be asked for. This work is to cover the parts of the tunnel not included in the Pierson and O'Rourke contracts.

LAUNDRY MACHINERY.—Washington, D. C.—Following bids were received by Isthmian Canal Commission Nov. 1 for laundry machinery: (1) machinery delivered in New York, (2) delivered at Isthmus: Troy Laundry Co., (1) $8,870.50, (2) $9,578.50; Watkins Laundry Mach. Co., (1) $9,347, (2) $9,647; Wilson Laundry Machinery Co., Columbia, Pa., (1) $7,400.50, (2) $7,920.50; Nelson & Kreuter Co., (1) $7,230, (2) $7,410; A. L. Hagen Co., Rochester, N. Y., (1) $6,476.50, (2) $6,805.50.

TUNNELS.—Chicago, Ill.—John Ericson, Cy. Engr., has submitted to council estimates of cost of lowering the river tunnels, which have been ordered removed by the Government. The cost of removing the present tunnels is variously estimated from $37,000 to $60,000 each. The cost of constructing a new tunnel at La Salle St., using the old bore as roof, with the present approaches, is estimated at $535,000, and without the old tunnel as protection $668,000. If the approaches are lengthened to Illinois and Washington Sts. the cost will be $750,000 with the old tunnels as protection and $833,000 without them. The Washington St. tunnel will cost $660,000 and $754,000, according to the removal of the present tunnel before or after construction of the new one. The proposed Dearborn St. tunnel will cost $775,000. The cost of new bridges and viaducts necessary are estimated at $749,000.

CANAL.—Albany, N. Y.—Estimates and specifications for six sections of the work for improving the Erie, Oswego and Champlain canals, in connection with the $101,000,000 barge canal have been completed and bids will be called in a few days. The work to be done is as follows: Section 1.—Excavating the Hudson River channel from Northumberland to Fort Miller and from Crocker's Reef to Fort Edward, construction of Crocker's Reef dam and approaches to the head of the land line and other incidental work, 7¼ miles in all. Board estimate, $712,823. Section 2.—Excavation and protection of the sides of the canal on the Mohawk River to a point ¼ of a mile west of locks, construction of Locks 2 and 3, with approaches. Board estimate, $1,170,036. Section 3.—Excavation of canal and protection of banks below Lock 6 at Fort Miller and its approaches at guard gate above Crocker's Reef, construction of Lock 6, guard gate and approaches, bridge abutments and foundations, removal and re-erection of bridge at E St., the change in location of old Champlain Canal. Board estimate, $871,602. Section 4.—Construction of canal and appurtenances from the foot of Lock 25 to the deep waters at the foot of Lock 27 to the deep waters at the foot of Oneida Lake, 4 93-100 miles. Board estimate, $934,444. Section 5.—For construction of canal and its appurtenances from near Mosquito Point Bridge over Seneca River to east of village of Savannah, 5 66-100 miles. Board estimate, $484,440. Section 6.—Excavation of canal south of Buffalo Road, Lyall Ave., Niagara Falls branch of the New York Central Railroad; Lee road and Spear's Bridge Road and incidental work. Board estimate, $1,588,912.

MINING NOTES.

MINING MILL.—San Francisco, Cal.—E. Gregory & Co., San Francisco, who have purchased the Santa Monica mine at Snowpoint, will, it is stated, erect a mill in the spring.

SMELTER.—Nogales, Ariz.—Local reports state that it is rumored that the American Smelting & Refining Co. contemplates the erection of a small smelter near San Pedro de Ocampo on the C. & Z. R. R.

QUARRY MACHINERY.—Arizona.—It is reported that Dr. F. H. King, Boulder, Colo., will soon install machinery to cut and polish marble at the quarry which he owns in the Santa Rita Mountains.

TUNNEL.—Nogales, Ariz.—Advices from this place state that Missouri-Mexican Mining Co., of which T. W. Foster is Gen. Mgr., will run a 250-ft. tunnel. Property is at the old Todos Santos camp near Suaqui de Batue.

MILL.—Boise, Idaho.—Frank C. Rogers, who is promoting the development of the Black Pearl mine near Boise, will probably equip the plant with a mill next season.

SMELTER.—Seligman, Ariz.—The Colorado Iron & Fuel Co. is exploiting a large iron mine 16 miles from Seligman and it is probable that a smelter will be erected at the mines and also a line of railroad built from Seligman.

MINING EQUIPMENT.—Pendleton, Ore.—Plans are being made for the reorganization of the Golconda Consolidated Gold Mining Co. A meeting was held in Pendleton Nov. 8 and proposition submitted to organize new company, pay present indebtedness and equip and operate the properties. T. G. Hailey is Pres.; J. S. Beckwith, Secy.

MILL, SMELTER.—Bridger, Mont.—Properties of the Bridger Improvement Co. and the Bridger Coal Co. are stated to have passed into the hands of an Eastern syndicate, which will erect a mill near Bridger for the handling of gypsum, with capacity of 100 tons a day. It is thought that smelters will be erected eventually.

NEW COMPANIES.—New York, N. Y.—Summit Mining Co.; capital, $1,000,000; James T. Goodliff and A. L. Purdy, Wellesville, N. Y., are interested.——Yakima Mining & Development Co., North Yakima, Wash.; capital, $100,000; I. H. Dills and H. V. Bonniwell are interested.——Lucky Ridge Mining Co., Boise, Idaho; capital, $1,250,000; R. B. Anderson, Boise, Idaho, and J. A. Young, Pearl, Idaho, are interested.——Optimo Mining Co.; capital, $900,000; C. J. Heidenurch and W. H. Yerrick, Missoula, Mont., are interested.——Augusta Gold Mining Co., Great Falls, Mont.; capital, $300,000; G. H. Stanton and Chas. Young, Great Falls, Mont., are interested.——Arkansas Black Diamond Coal Co., Fort Smith, Ark.; capital, $100,000; J. N. Brown, Pres.; L. P. Miles, Secy.

MEXICO.

RAILWAYS.

CITY OF MEXICO.—Alberto Diaz Rugama, as representative of the Federal District Circunvalacion Ry. Co., has obtained an extension of time for the construction of the road. 20 kilometers must be completed Dec. 31, 1905, and in each following year at least ten kilometers must be finished, so as to complete the whole road by April 12, 1910. The contracting firm of John J. Moylan & Co. have the road in hand, and have secured the necessary capital. The plans for the road have been approved by the government.

CITY OF MEXICO.—El Oro Mining & Ry. Co., which has secured concession for a railway from point on line from Tultenango to Yndese to Toluca, will soon have engineers in the field for location work. The proposed line will be about 100 kilometers long, and its promoters have the right to build branches.

SONORA.—Engineers are locating the line for a railway from the San Jose station of the C. Y. R. & P. R. R. to terminate in Nozales, Sonora, and another line starting from the same point and connecting with the Southern Pacific. It is said construction will commence as soon as the location is completed.

LIGHT AND POWER PLANTS.

ARIO, MICHOACAN.—Felipe Alonzo, who has been awarded the contract for the installation of the electric light plant at Ario, Michoacan, is said to be preparing to place an order for machinery, wire, lamps, etc.

BRIDGES.

SAN PEDRO ACAPOAXTLA, VERA CRUZ.—Residents of this place are raising funds for the construction of a steel and masonry bridge over the Canada River.

BUILDINGS.

CHIHUAHUA.—The ruins of the Betencourt theatre, destroyed by fire some months ago, in this city, are being cleared away, preparatory to the construction of a new and modern theater.

CITY OF MEXICO.—Juan Bearti, of this city, is preparing the plans for the new opera house which is to be built here by the Mexican Government. The building will cost about $3,000,000. As soon as the plans are completed and approved by the government, the contract will be let for the construction of the building. It will be located on a tract of land on the east end of the Alameda.

A market house will be built on the western side of the Viga Canal, near the old city gate.

The government has purchased a lot at the corner of Cinco de Mayo and Betlemitas St., and will construct there a building for the use of the patent and trades-marks' offices.

Plans are being prepared for the construction of two new military barracks, one for cavalry and the other for infantry, to be situated near this city.

MONTEREY.—Advices from this city state that work on the following buildings is to commence within 30 days: The Christian Mission High School, $30,000; office of the Cuauhtemoc Brewery, $75,000; store and office building between the News office and Mercantile Bank, $40,000; 44 frame buildings, to be used as stores, and built on both sides of the steel bridge that spans the Rio Santa Catarina River, $10,000; improvements at Casino Club, $30,000; Military Hospital, $45,000; buildings at the steel plant, $75,000; Pedro Trevino buildings, $135,000; Kentucky Black Horse Tobacco Factory, $35,000. Judging from previous reports, however, it is probable that work is already under way on some of the above-mentioned buildings.

TAMPICO.—A 4-story brick store and office building is to be erected here for Felipe Gonzalez. The building will have a frontage of about 200 ft. and a depth of 75 ft.

WATER-WORKS.

CITY OF MEXICO.—Mexican Government, according to reports, is preparing to issue $10,000,000 of bonds for inaugurating an extensive system of irrigation. Engineering parties have been in the field for some time studying plans for redeeming arid lands and perfecting existing systems of irrigation.

Eleuterio de la Garza has applied for permission to utilize the waters of the Tambaque Stream, San Luis Potosi, for irrigation and motive power.

MANUFACTURING PLANTS.

CITY OF MEXICO.—International Packing Co. will erect packing house here, according to reports.

Thomas Moorhead, of San Francisco, Cal., is investigating timber lands in Southern Mexico with the view to acquiring large tracts and establishing lumber mills. He is particularly interested in hardwood timber.

COATZACOALCOS, ISTHMUS OF TEHUANTEPEC.—The Rio Vista plantation, situated on the Isthmus of Tehuantepec, is to be taken over by the Rio Vista Plantation Co. and a sugar mill will be installed on the plantation.

GUADALAJARA.—The contract for constructing a large sugar mill on the Cofradia plantation, owned by Luis G. Vizcarra, situated southwest of here, was recently let to Mora & Lopez de Lara, of this city. The plant will cost about $100,000. The plant is designed to grind about 5,000 tons of cane per year.

The Compania Peleteraade Guadalajara, which operates a large shoe factory and tannery here has been reorganized, and the plant will be enlarged. Daniel Ochoa is Mgr.

QUERETARO.—Lic. Domingo Barrios Gomez, of 13 Cordobanes St., City of Mexico, has returned from the United States, where he has succeeded in organizing a company for the erection and operation of a malt factory near the city of Queretaro. The company has been incorporated in Washington, D. C., with a capital of $300,000, gold. The president of the company is E. S. Ware, Secy. of the St. Louis Manufacturers' Association of St. Louis, Mo.

TONALA, CHIAPAS.—Bishop Cluff, acting on behalf of the Mormon church, has acquired a tract of 376,000 acres, bordering on the Tonala River, which will be used for colonization purposes. There are great quantities of mahogany and red cedar on the land and lumber mills will be established for the purpose of utilizing this timber.

MISCELLANEOUS.

CANAL.—Ebano, Temaulipas.—The Mexican Government has approved the concession granted to the Mexican Petroleum Co. for the construction of a navigable canal from this place to the Panuco River. Under the terms of the concession the canal must be available for public ure and all alien rights are denied. The concession is for a term of 50 years.

DRAINAGE AND SEWER SYSTEMS.—City of Mexico.—The department of public works of the Mexican government has ordered the construction of the sewer system and drainage works at the suburb of La Piedad to be commenced as soon as the rainy season is over.

MINING MACHINERY.—Guerrero.—It is probable that considerable mining machinery will be required at the El Gallo mine, on the Bal as River, state of Guerrero. The headquarters of the El Gallo Mining Company is in London, and L. P. Goldstone, a mining engineer, is on his way to the mines to consult with Robert James, the Manager of the company, in regard to development work, and the machinery required for the mine.

STAMP MILL.—City of Mexico.—San Francisco, Cal., reports state that Geo. S. Montgomery of that city had gone to Mexico to open a mine, and that it was his intention to install a 100-stamp battery to treat the ore.

SMELTER.—Torreon.—The American-Mexican Mining & Development Co. of Chicago, Ill, is stated to have placed a contract with Allis-Chalmers Co., of New York, for a 100-ton lead smelter. The McDaniel Smelter Co. of Toledo, O., has also secured a contract, while the White Gas Engine Co. of Kansas City, Mo., will ship some hoists and Fairbanks, Morse Co. have obtained a good size gas engine order. The company, as was stated in our issue of Nov. 3, is planning erection of a 1,000-ton smelter at Torreon and another at Ver.ardena, state of Durango.

TUNNEL.—La Yesca, Territory of Tepic.—A. B. Carpenter, a mining engineer of the City of Mexico, has been awarded the contract to drive a tunnel into La Yesca Mountain to cut one of the veins of the Buena Vista y Anexas mines near this place. The tunnel will be about 1,800 ft. long and is expected to cut the vein at a depth of 2,000 ft.

FOREIGN CONTRACTS—EXPORT NEWS.

COAL UNLOADING PLANT.—Belgium.—Tenders are invited until Dec. 15 for the supply of coal unloading and transport apparatus for the municipality of Brussels.

35-ton electric overhead traveling crane; al... furnish... ing transformer pillars and switch gear fo... Munici... pality of Johannesburg.

DRAINAGE SCHEME.—England.—Urban ... Coun... cil of Ross (Herefordshire) have invited ... son of ... schemes to provide for drainage of dispo... ...eeage. Premiums of $250, $125 and $50 will be ... for ... schemes, which should be received by Ern... Davies, Clk., Albion Chambers, before Dec. 5.

BRIDGES.—Belgium.—Bids are asked for ... ...onstruc... tion of two bridges over the River Dyle, a... ...ines for the use of the railway from Malines to Antwe... The es... timated cost of the work is about $72,500. ... ...osit of $4,400 is required to qualify tenders. Specifi... ...ns (No. 289) of 1904) may be obtained on payment ... ...20 cts. from La Bourse de Commerce (Salle de l'U... ...Syndi... cate), Brussels, where adjudication of tende... ...ill take place at 12 m., Dec. 14.

CONTRACT PRICES.

[Where (*) precedes items under Contract Pric... ...he work was advertised in Engineering News.]

*DREDGING.—Washington, D. C.—Following ... ...as were received by Capt. W. P. Wooten, U. S. Engr... Nov. 2 for (1) 166,000 cu. yds. dredging in Potomac ... ...ver, and (2) 14,000 cu. yds. in Nomini Creek: Isaac ... Brown, (1) 15½ cts., (2) 15½ cts.; Sanford & Brook... Co., (1) 16½ cts., (2) 16½ cts.; Coastwise Dredging ... (1) 18 cts., (2) 18 cts.; George W. Catt, (1) 13½ ... (2) 13½ cts.; Maryland Dredging & Construction ... (1) 9 cts., (2) 15 cts.

TIMBER, STONE, ETC.—Chicago, Ill.—Following bids were received by Col. O. H. Ernst, U. S. Engr... Nov. 4 for rebuilding superstructure and laying new decking at Calumet Harbor: (1) Bennett & Schnorbach, Muskegon, Mich.; (2) Chicago & Great Lakes Dredge & Dock Co., Chicago, Ill.; (3) Edward Gillan, Racine, Wis.; (4) Fitzsimmons & Connell Co., Chicago, Ill.:

Bids Received at Chicago, Ill., Nov. 4, for Rebuilding Superstructure and Laying New Decking at Calumet Harbor.

Items.	Quantities.	(1)	(2)	(3)	(4)
Oregon fir	236,640 ft.	$50.00	$34.00	$35.00	$32.00
White pine	236,640 ft.	50.00	34.00	38.00	33.00
Pine decking	138,000 ft.	33.00	26.00	26.00	30.00
Wt. iron dr. bolts	27,300 lbs.	.04	.04	.03½	.03½
Steel dr. bolts	27,300 lbs.	.04	.04	.03½	.03½
Wt. iron spikes	3,910 lbs.	.04	.03½	.03	.03
Stone	575 cords	6.00	5.50	5.50	7.00
Totals		$21,084	$16,025	$16,145	$16,810

ELECTRIC LIGHTING.—Romania.—Tenders have been invited for the concession to furnish the town of Giurgevo with electric light. The adjudication will take place on Jan. 28 at the Municipal Offices, Giurgevo, whence further information may be obtained.

RAILWAY.—England.—Bids are asked by Cardiff Ry. Co., Henry A. Roberts, Secy., 22A Queen Anne's Gate, London, S. W., until Nov. 17 for constructing 5¾ miles of railway, from the terminus at Tongwynlais to Treforest, County of Glamorgan.

CRANES, TRANSFORMER PILLARS, ETC.—South Africa.—Bids are asked by Mordey & Dawbarn, 82 Victoria St., London, S. W., until Dec. 27 for furnishing two

WATER MAINS.—New York, N. Y.—Following bids were received by John T. Oakley, Comr. Water Supply, Gas and Electricity, Nov. 2 for furnishing, delivering and laying water mains in various streets of the Boroughs of Manhattan and the Bronx: (1) Jno. Cornwell, 69 East 127th St.; (2) Wilton Contracting Co., Williamsbridge, N. Y.; (3) Norton & Dalton Contracting Co., 27 West 140th St.; (4) Louis D. Gregory, West 120th st.; (5) Jos. Gallo, Pelham Ave. Bridge; (6) Lloyd Collis, 21 Park Row; (7) Cunningham & Kearns Contracting Co., 434 East 91st St.; (8) Clinton Beckwith, Jerome Park; (9) Patrick Goodman:

Bids received at New York, N. Y., Nov. 2, 1904, for Furnishing, Delivering and Laying Water Mains in Various Streets of the Boroughs of Manhattan and the Bronx.

Items.	Quantities.	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)
Pipe	2,500 tons	$24.00	$24.50	$23.50	$26.00	$26.00	$25.85	$25.50	$24.75	$26.00
Specials	45 tons	53.00	53.00	60.00	65.00	60.00	55.00	57.00	55.00	60.00
Rock	10 cu. yds.	5.00	.26	10.00	8.00	6.00	3.00	5.00	5.00	20.00
Rock	2,000 "	1.00	.26	3.00	3.00	2.00	3.00	2.00	3.15	4.00
Earth	39,500 "	.38	.26	.24	.25	.25	.25	.25	.30	.25
Till	40,000 "	.14	.26	.24	.15	.20	.20	.25	.24	.20
20-in. pipe	14,500 lin. ft.	.60	.48	.45	.45	.70	.50	.50	.50	.65
12-in. "	600 "	.30	.35	.30	.30	.20	.30	.40	.35	.30
6-in. "	43,000 "	.12	.25	.20	.15	.16	.15	.17	.18	.20
4-in. "	200 "	.10	.20	.20	.15	.12	.15	.17	.15	.10
20-in. stop cocks	7	330.00	325.00	350.00	325.00	350.00	300.00	400.00	285.00	325.00
12-in. "	6	100.00	88.00	90.00	90.00	85.00	85.00	80.00	75.00	80.00
6-in. "	84	45.00	40.00	37.00	38.00	35.00	35.00	35.00	35.00	33.00
6-in. " reset	3	8.00	5.00	10.00	15.00	20.00	5.00	20.00	10.00	10.00
4-in. " reset	2	6.00	5.00	5.00	15.00	18.00	5.00	20.00	10.00	10.00
Hydrants	147	80.00	75.00	70.00	66.00	70.00	67.50	80.00	65.00	65.50
" reset	1	8.00	5.00	10.00	15.00	30.00	5.00	25.00	10.00	10.00
Blow offs, set	5	15.00	10.00	15.00	10.00	100.00	10.00	20.00	20.00	10.00
16x6 connections	4	75.00	100.00	75.00	100.00	100.00	100.00	100.00	100.00	150.00
8x6 "	1	60.00	100.00	60.00	90.00	100.00	75.00	100.00	100.00	150.00
Brick masonry	100 cu. yds.	.01	15.00	12.00	15.00	12.00	12.00	10.00	12.50	15.00
Concrete "	50 "	.01	5.00	8.00	7.00	6.00	7.50	5.00	7.50	8.00
Pave't flag	600 sq. yds.	.01	.01	.40	.01	.10	.40	.50	.25	.50
Macadam	6,500 "	.01	.01	.40	.01	.15	.50	.42	.50	.50
Curb and gutter	600 lin. ft.	.01	.01	.10	.01	.01	.10	.20	.10	.01
Boxing	25 "	5.00	4.00	6.00	5.00	4.00	6.00	5.00	5.00	5.00
Sheeting	500 ft. B.M.	10.00	.01	30.00	30.00	30.00	30.00	20.00	30.00	40.00
Totals		$118,242	$122,283	$123,515	$121,471	$126,781	$126,232	$128,314	$128,225	$134,616

CHARLES RIVER DAM AND LOCK.

Commonwealth of Massachusetts,
Charles River Basin Commission.

Sealed proposals will be received at the office of the Charles River Basin Commission, 367 Boylston Street, Boston, Mass., until 2.30 o'clock p. m. of Tuesday, the 20th day of December, 1904, for building the Charles River Dam and Lock in Boston and Cambridge, Mass. The Dam is to be built at the site of the existing Craigie Bridge and the main portion is to be constructed of earth filling between masonry retaining walls built on pile foundations. The Dam will be about 1,300 feet long, will vary in width from about 140 feet to 480 feet, and the fill will vary in depth from about 15 feet to 50 feet. Two coffer dams are to be built, the one at the Boston end, enclosing the Lock, drawbridge foundations, about 500 feet in length of a 10' × 12' concrete conduit, gate chamber, etc., and the one at the Cambridge end enclosing the sluices for discharging the flow of the river, a lock for small boats, gate chamber, etc. These structures within the coffer dams will be built mainly of concrete masonry on pile foundations. From the Lock to the sluices a timber dam is to be constructed, for the purpose of arresting the tidal flow. Dredging will be required in the Broad and Lechmere canals, located in Cambridge just above the Dam, in the adjacent Basin, and in the vicinity of the ends of the Lock, sluices and marginal conduits. The construction of the Dam and its appurtenances will require about 340,000 cubic yards of earth excavation, 400,000 cubic yards of additional material for filling, 2,800 cubic yards of stone masonry, 41,000 cubic yards of concrete masonry, 490,000 linear feet of piles, 1,100 M. feet B. M. of long leaf yellow pine lumber, 550 M. feet B. M. of spruce lumber and 10,000 tons of riprap.

Each bid must be accompanied by a certified check drawn upon a national bank or a trust company established in the city of Boston, or the city of New York, for $10,000. A bond in the sum of $150,000 will be required for the faithful performance of the contract. The work must be completed on or before July 15, 1908.

Pamphlets containing further information for bidders, forms of proposal, contract and specifications and plans will be ready about November 15, and will be mailed to contractors who apply to the Chief Engineer, or may be obtained at his office, 367 Boylston Street. The printed form must be used in making proposals. The Commission reserves the right to reject any or all proposals and to accept the proposal deemed best for the Commonwealth. HENRY S. PRITCHETT, Chairman; HENRY D. YERXA, JOSHUA B. HOLDEN, Charles River Basin Commission; HIRAM A. MILLER, Chief Engineer; WILLIAM S. YOUNGMAN, Secretary. 19-4t

WATER-WORKS.

Aberdeen, Miss.

Bids will be received until 8 p. m., November 24, for materials and construction work for complete system of water-works, with mechanical filter. Certified check for four (4) per cent. required.

The right is reserved to reject any or all bids.

Plans on file at Mayor's office.

For details address A. L. Dabney, Engineer, Greenwood, Miss.

J. M. ACKER,
Mayor.

19-1t

WEST POINT, N. Y., November 10, 1904.—Sealed proposals, in triplicate, will be received here until 12 o'clock noon, November 29, 1904, for the Construction of a Boiler and Mechanical Draft Plant, as per drawings and specifications on file in this office. The U. S. reserves the right to accept or reject any or all proposals or any part thereof. Forms and specifications furnished upon application. Address QUARTERMASTER, U. S. M. A. 19-2

SITUATIONS OPEN

(Received on Wednesday, too late for classification.)

WANTED.—Thoroughly able and experienced engineer with excellent executive ability, to take charge of active reenforced concrete contracting company; state salary, references and experience. Address "W. 19," Engineering News, New York. 19-1t

WANTED.—Several men experienced in detailing and checking structural steel work for firm in western Pennsylvania. Address "X. 19," Engineering News, New York. 19-1t

DRAFTSMAN.—Experienced in railroad construction work. Apply "TERMINAL ENGINEER," N. Y. C. & H. R. R. Co., 42d St. and Lexington Ave., New York City. 19-1t

For other Proposal Advertisements see pages 35, 36, 37. of Advertisements and Construction News page 232